

PRODUCT CATALOGUE



OUR STORY

Luminous is India's leading power backup and solar energy solutions company. For nearly four decades, we have empowered over 100 million customers with reliable and innovative energy technologies. Our integrated portfolio includes solar panels, inverters and advanced energy storage systems, designed and manufactured across eight world-class facilities to ensure seamless compatibility and long-term performance. With a channel network of over one lakh partners across the country and a service footprint covering more than 6,000 tehsils, we deliver expert on-call support and dependable

doorstep service wherever our customers are. Our solar ecosystem brings together high-efficiency panels, lead-acid and lithium-ion batteries, inverters for residential, commercial, industrial and utility-scale applications, and a smart monitoring app that provides real-time performance insights. From system design and site analysis to digital financing, professional installation and long-term maintenance, every part of the solar journey is managed under one trusted name - ensuring simplicity, reliability and peace of mind.

Complete Solution Ecosystem



On-grid, off-grid and hybrid solar systems designed for seamless performance

End-to-End Expertise



From site assessment and financing to installation and lifecycle support

Future-Ready Innovation



Next-gen panels, deep-discharge batteries, smart inverters and monitoring

Widest Service Network



Expert assistance delivered across 6,000+ tehsils nationwide

Years of Expertise
38+

Delighted Customers
100 Mn+

Countries Globally
41+

Strong Network
100K+



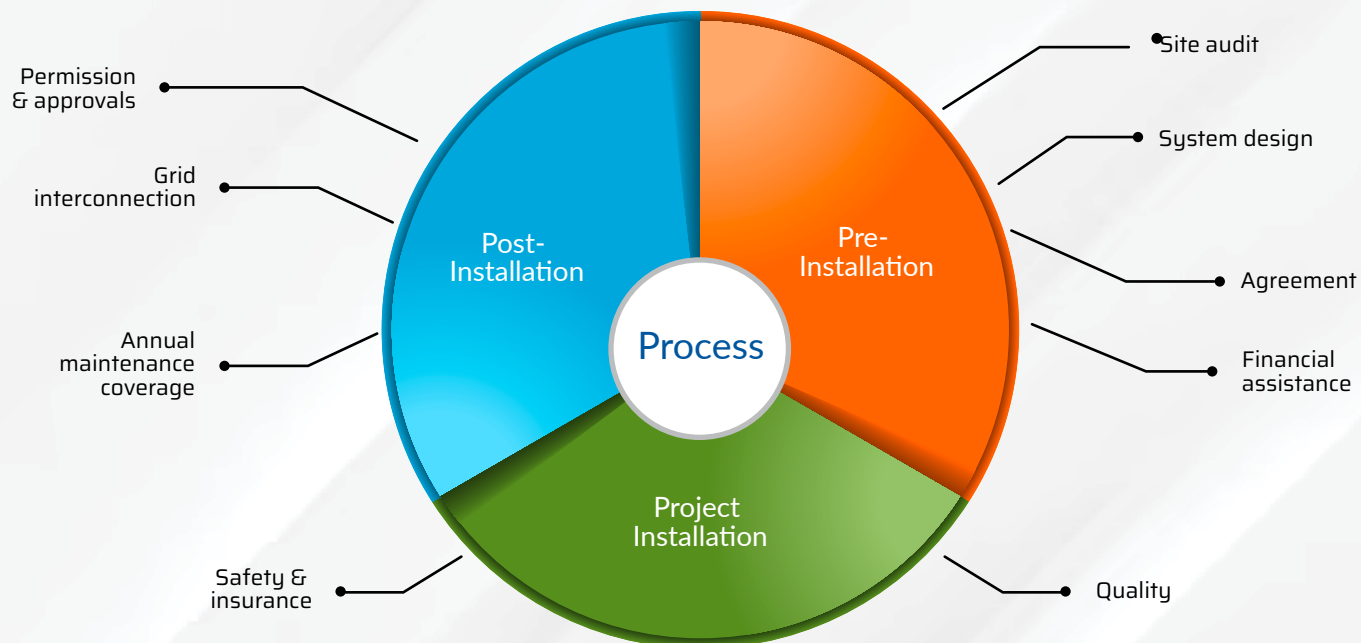
Your Solar: Made, Installed & Serviced by Luminous

Making Solar Simple

- Complete Product Range
- Expert Design & Quality Installation
- Flexible Financing for Homes & Businesses
- Nationwide Service with On-Site Support

Right Design, Designed Right

- Custom Design
- Conformance To BIS & IEC Standards
- Premium Grade Products & Components
- Quality Workmanship



OUR SOLAR EXPERTISE



DEDICATED TEAM

- Experts at every step, ensuring excellence throughout.
- Site survey, solution design, project installation, operations and after-sale teams collaborate for top-tier experience.

COMPLIANCE

- BOS as per Indian Standards, IS :3043.
- Safety from various electrical hazards.
- Precise cable sizing to reduce generation losses & optimise performance.



INSTALLATION

- Installation & commissioning by MNRE empanelled installers
- Best in class material, as per MNRE standards
- Premium quality materials, aligned with MNRE guidelines

AUDIT

- Multiple quality checks by Luminous experts—before and after installation.
- Products tested, validated & certified as per IS, IEC, TUV standards.
- Plant remotely monitored for one year.



SAFETY

- Best in class safety standards to safeguard against occupational hazards
- Lightning arresters to prevent external electrical hazards.
- All equipment complies with IS:3043 norms to prevent electrocution or related hazards.

WHY CHOOSE US

Luminous assures its customers a seamless solar journey by systematically managing each step. From top-of-the-line components to quality workmanship, Luminous is committed to delivering UNMATCHED EXPERIENCE and complete PEACE OF MIND.

01

ONE STOP SOLUTION

The right design, designed right with end-to-end responsibility!

LIFETIME SUPPORT

From Site Surveys & Project Management to Post Installation requirement, we are always there!

02**03**

EASY BUYING

Choose from multiple financing options and make your investment process simple and secure!

BEST QUALITY

Our robust processes and systems ensure that your Solar Rooftop Solution is of top-notch quality!

04

OUR PROJECTS



2.4 MWp
Gwalior, Madhya Pradesh



1 MWp
Kolkata, West Bengal



1 MWp
Hyderabad, Telangana



800 kWp
Sriperumbudur, Tamil Nadu

OUR PROJECTS



700 kWp
Lucknow, Uttar Pradesh



680 kWp
Daniyawan, Bihar



600 kWp
Ch Sambhaji Nagar, Maharashtra



500 kWp
Bathinda, Punjab

OUR WIDE PORTFOLIO CATERING TO EVERY CONSUMER NEED



LIGHTS



FANS



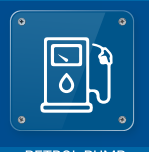
AIR CONDITIONER



WATER PUMP



SUBMERSIBLE PUMP



PETROL PUMP



DEEP FREEZER

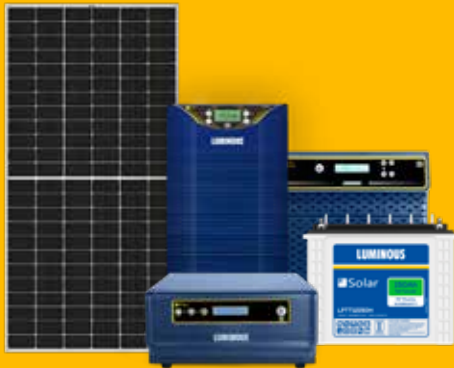


MACHINERY

FOR ALL KIND OF LOADS & DUTY CYCLES



ON GRID SOLAR SOLUTIONS



OFF GRID SOLAR SOLUTIONS



LIGHTS



FANS



AIR COOLER



FRIDGE

FOR HOME APPLIANCES WITH SHORT DUTY CYCLE



LIGHTS



FANS



AIR CONDITIONER



WATER PUMP



SUBMERSIBLE PUMP



PETROL PUMP



DEEP FREEZER

FOR LIGHTING AND COOLING EQUIPMENTS
WITH HEAVY DUTY CYCLE



HYBRID SOLAR SOLUTIONS

*For Representation Only. Check Inverter Ratings.

For Homes & Small Shops

LUMINOUS
SOLAR



NXG PRO SERIES
1kVA/12V & 1kVA/24V

NXG SERIES
500VA to 2000VA



**For Large Residences/Farmhouses,
Offices, Agricultural & Retail Establishments**



SOLARVERTER SERIES
3kVA/48V - 5kVA/48V

SOLARVERTER PRO SERIES
2kVA/24V - 10.1kVA/120V

NXP 3500
3kVA/24V

NXP PRO 3500
3kVA/24V



**For Large Residences/Farmhouses,
Commercial Establishments & Institutions**

HYBRID HF NXH

SINGLE PHASE:
3kW & 5kW

THREE PHASE:
8kW TO 12kW

HYBRID TX SERIES

SINGLE PHASE:
3kVA, 4kVA & 5kVA

THREE PHASE:
10.5kVA & 250kVA



**For Utility Scale
Applications**



GRID TIE INVERTERS
2KW TO 350KW
250 & 350KW (800V) UTILITY GRID GTI



G12R TOPCON PANELS

620W~635W DCR

G12R solar panels are next-generation modules built with advanced N-Type TOPCon technology offering higher efficiency, improved bifacial performance, and long-term reliability—making them ideal for utility-scale and commercial installations.



30 Years
Performance Warranty



12 Years
Product Warranty



Enlisted under
ALMM Order



Grade-A Solar Cells

For superior performance and durability.



Anti-reflection Coating

Reduces light reflection to increase efficiency.



AI-Driven Quality Checks

Advanced AI-based inception for precise quality control



LOW-LIGHT

Excellent Power Generation under Low Light

Optimizes energy production in various conditions.



Fully Tempered Glass

High-strength glass for superior durability

Bi-facial Glass-to-Glass

Electrical Data (STC)	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	620	625	630	635
Maximum Power Voltage Vmp (V)	40.99	41.18	41.51	41.58
Maximum Power Current Imp (A)	15.13	15.179	15.18	15.27
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	16.16	16.180	16.2	16.21
Module Efficiency (%)	22.95	23.14	23.32	23.51
Maximum System Voltage (V)	1500	1500	1500	1500

STC: Irradiance 1000W/m² , Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	465	469.4	473	477
Maximum Power Voltage Vmp (V)	38.09	39.07	38.57	38.65
Maximum Power Current Imp (A)	12.22	12.24	12.26	12.33
Open Circuit Voltage Voc (V)	45.59	45.8	46.08	46.15
Short Circuit Current Isc (A)	13.05	13.06	13.08	13.09

NOCT: Irradiance 800W/m² ,Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	687	692.5	698	704
Maximum Power Voltage Vmp (V)	40.99	45.63	41.51	41.58
Maximum Power Current Imp (A)	16.76	17.93	16.82	16.92
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	17.91	16.81	17.95	17.96

BNPI:1000W/m² +φ.135, BIFACILITY COEFF. (φ) AT BNPI PMAX, ISC IS 80±10% & FOR VOC IS 99±10% , AM 1.5, 25°C

Bi-facial Output	LUM 625TG132 BI-GL (Reference Model)			
Bi-faciality Gain	10%	15%	20%	25%
Peak Power Pmax (Wp)	688	719	750	781
Maximum Power Voltage Vmp (V)	41.18	41.18	41.18	41.18
Maximum Power Current Imp (A)	16.69	17.45	18.21	18.97
Open Circuit Voltage Voc (V)	48.28	48.28	48.28	48.28
Short Circuit Current Isc (A)	17.8	18.61	19.42	20.23
Module Efficiency (%)	25.47	26.61	27.77	28.91

Mechanical Data	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Cell Type	TOPCON (N-Type)			
No. of Cells	132 half cells (Bifacial solar cells)			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	30A			
Module Dimensions (mm)	2382x1134x30			
Module Weight (KG)	32.5 Kg			
Junction Box	IP 68, Split Junction Box with individual bypass diodes			
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors			
Frame	Anodized Aluminium			
Glass	Front 2.0mm ARC; back 2.0mm Non-ARC			
Cell Encapsulant	High quality Encapsulant			
Backsheet	Glass			
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)			
Application Class	Class A (Safety Class II)			

Temperature Co-efficients (Tc) and permissible operating conditions	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.26%/°C			
Temp coefficient of Short Circuit Current	+0.046%/°C			
Temperature coefficient of Power	-0.31%/°C			

Warranty and Certifications	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Product Warranty	12 Years			
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30			
Approvals and Certificates*	BIS certified as per IS/IEC standards			



G12R TOPCON PANELS

620W~635W NON-DCR

G12R solar panels are next-generation modules built with advanced N-Type TOPCon technology offering higher efficiency, improved bifacial performance, and long-term reliability—making them ideal for utility-scale and commercial installations.



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Performance Warranty



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For superior performance and durability.



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Maximum Power Current Imp (A)	15.13	15.179	15.18	15.27
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	16.16	16.180	16.2	16.21
Module Efficiency (%)	22.95	23.14	23.32	23.51
Maximum System Voltage (V)	1500	1500	1500	1500

STC: Irradiance 1000W/m² , Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	465	469.4	473	477
Maximum Power Voltage Vmp (V)	38.09	39.07	38.57	38.65
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Open Circuit Voltage Voc (V)	45.59	45.8	46.08	46.15
Short Circuit Current Isc (A)	13.05	13.06	13.08	13.09

NOCT: Irradiance 800W/m² ,Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	687	692.5	698	704
Maximum Power Voltage Vmp (V)	40.99	45.63	41.51	41.58
Maximum Power Current Imp (A)	16.76	17.93	16.82	16.92
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Short Circuit Current Isc (A)	17.91	16.81	17.95	17.96

BNPI:1000W/m² +φ.135, BIFACILITY COEFF. (φ) AT BNPI PMAX, ISC IS 80±10% & FOR VOC IS 99±10% , AM 1.5, 25°C

Bi-facial Output	LUM 625TG132 BI-GL (Reference Model)			
Bi-faciality Gain	10%	15%	20%	25%
Peak Power Pmax (Wp)	688	719	750	781
Maximum Power Voltage Vmp (V)	41.18	41.18	41.18	41.18
Maximum Power Current Imp (A)	16.69	17.45	18.21	18.97
Open Circuit Voltage Voc (V)	48.28	48.28	48.28	48.28
Short Circuit Current Isc (A)	17.8	18.61	19.42	20.23
Module Efficiency (%)	25.47	26.61	27.77	28.91

Mechanical Data	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Cell Type	TOPCON (N-Type)			
No. of Cells	132 half cells (Bifacial solar cells)			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	30A			
Module Dimensions (mm)	2382x1134x30			
Module Weight (KG)	32.5 Kg			
Junction Box	IP 68, Split Junction Box with individual bypass diodes			
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors			
Frame	Anodized Aluminium			
Glass	Front 2.0mm ARC; back 2.0mm Non-ARC			
Cell Encapsulant	High quality Encapsulant			
Backsheet	Glass			
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)			
Application Class	Class A (Safety Class II)			

Temperature Co-efficients (Tc) and permissible operating conditions	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.26%/°C			
Temp coefficient of Short Circuit Current	+0.046%/°C			
Temperature coefficient of Power	-0.31%/°C			

Warranty and Certifications	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Product Warranty	12 Years			
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30			
Approvals and Certificates*	BIS certified as per IS/IEC standards			



TOPCON BIFACIAL SOLAR PANELS

575W-595W Non-DCR Modules

TOPCON solar cells are the innovative technology of the photovoltaic industry with high efficiency, reduced electron recombination through a tunnel oxide layer, and improved durability with less degradation over time. They often come with bifacial capabilities, capturing sunlight from both sides, and perform well in low-light conditions, making them ideal for utility-scale and rooftop installations.



30 Years
Performance Warranty



12 Years
Product Warranty



Enlisted under
ALMM Order



Premium Grade A Cells
For superior performance and durability.



Anti-reflection Coating
Reduces light reflection to increase efficiency.



PID Free
Prevents potential-induced degradation, ensuring long-term reliability.



Excellent Power Generation under Low Light
Optimizes energy production in various conditions.



UNSW Specified Cell Qualification
Ensures best quality panel offerings

Bi-facial Transparent Backsheet



Electrical Data (STC)	LUM 24575T144 BI-TS	LUM 24580T144 BI-TS	LUM 24585T144 BI-TS*	LUM 24590T144 BI-TS	LUM 24595TG144 BI-TS
Peak Power Pmax (Wp)	575	580	585	590	595
Maximum Power Voltage Vmp (V)	42.44	42.59	42.74	42.88	45.08
Maximum Power Current Imp (A)	13.55	13.62	13.69	13.76	13.2
Open Circuit Voltage Voc (V)	51.27	51.47	51.67	51.86	54.90
Short Circuit Current Isc (A)	14.31	14.37	14.43	14.49	13.79
Module Efficiency (%)	22.26	22.45	22.65	22.84	23.03%

STC: Irradiance 1000W/m², Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	LUM 24575T144 BI-TS	LUM 24580T144 BI-TS	LUM 24585T144 BI-TS*	LUM 24590T144 BI-TS	LUM 24595TG144 BI-TS
Peak Power Pmax (Wp)	431	435	439	443	446
Maximum Power Voltage Vmp (V)	39.44	39.58	39.72	39.85	41.9
Maximum Power Current Imp (A)	10.94	11	11.05	11.11	10.66
Open Circuit Voltage Voc (V)	48.6	48.79	48.98	49.16	52.05
Short Circuit Current Isc (A)	11.55	11.6	11.65	11.7	11.13

NOCT: Irradiance 800W/m², Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	LUM 24575T144 BI-TS	LUM 24580T144 BI-TS	LUM 24585T144 BI-TS*	LUM 24590T144 BI-TS	LUM 24595TG144 BI-TS
Peak Power Pmax (Wp)	637	643	648	654	659
Maximum Power Voltage Vmp (V)	42.44	42.59	42.74	42.88	42.88
Maximum Power Current Imp (A)	15.01	15.09	15.17	15.25	14.63
Open Circuit Voltage Voc (V)	51.27	51.47	51.67	51.86	51.86
Short Circuit Current Isc (A)	15.86	15.92	15.99	16.05	15.28

BNPI: 1000W/m² ± Φ.135, BIFACILITY COEFF. (Φ) AT BNPI PMAx, ISC IS 80±10% & FOR VOC IS 99±10%, AM 1.5, 25°C

Electrical Characteristics with different rear side power gain (Reference 585 Wp Front)					
Bi-Faciality Gain	10%	15%	20%	25%	
Peak power Pmax (Wp)	643.00	672	702	731	
Maximum Power Voltage Vmp (V)	44.60	44.60	44.60	44.60	
Maximum Power Current Imp (A)	14.42	15.07	15.74	16.39	
Open Circuit Voltage Voc (V)	53.93	53.90	53.95	53.92	
Short Circuit Current Isc (A)	15.11	15.8	16.49	17.18	
Module Efficiency (%)	24.78%	25.94%	27.10%	28.26%	

Mechanical Data	LUM 24575T144 BI-TS	LUM 24580T144 BI-TS	LUM 24585T144 BI-TS*	LUM 24590T144 BI-TS	LUM 24595TG144 BI-TS
Cell Type	TOPCON (N-Type)				
No. of Cells	72 (144 half- cells) Bifacial solar cells				
Rated Module Voltage (V)	24				
Maximum Series Fuse Rating	25A				
Module Dimensions (mm)	2278x1134x30				
Module Weight (KG)	28.8 Kg				
IP Rating	IP 68 (With Potting)				
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors				
Frame	Silver Anodized aluminium alloy				
Glass	3.2mm thick high transmission low iron tempered glass, AR coated				
Cell Encapsulant	High quality Encapsulant				
Backsheet	Transparent Backsheet				
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)				
Application Class	Class A (Safety Class II)				

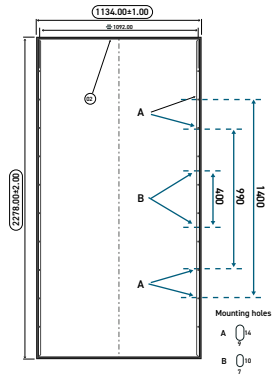
Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24575T144 BI-TS	LUM 24580T144 BI-TS	LUM 24585T144 BI-TS*	LUM 24590T144 BI-TS	LUM 24595TG144 BI-TS
Operating Temperature	-40°C to +85°C				
Temp coefficient of Open Circuit Voltage	-0.26%/°C				
Temp coefficient of Short Circuit Current	+0.046%/°C				
Temperature coefficient of Power	-0.31%/°C				
NOCT	45°C ± 2°C				

Warranty and Certifications	LUM 24575T144 BI-TS	LUM 24580T144 BI-TS	LUM 24585T144 BI-TS*	LUM 24590T144 BI-TS	LUM 24595TG144 BI-TS
Product Warranty	12 Years				
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30				
Approvals and Certificates*	BIS certified as per IS/IEC standards				

*5 star BEE rating is only applicable for LUM24585T144 BI-TS

Solar Module Dimension

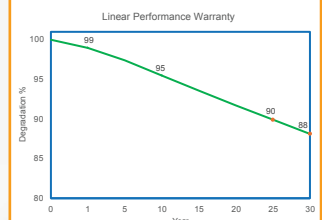
LUM24585T144 BI-TS



IV Curve



Linear Graph



*Approvals & Certifications

IEC 61853-1 | IEC 61853-2
IEC EC 62759-1 | IEC 61853-2 |
IEC 61853-2 | IEC 62716 |
IEC 62759-1 | IEC 61701 |
IEC TS 62804 -1 | IEC 60068-2-68 |
IEC 60068-2-68 | IEC TS 62804-1 |
IEC 61701 | IEC 62716

Packaging Information

Container	32 Feet
Modules per pallet	36 Nos.
Pallets per container	16 Nos.
Modules per container	576 Nos.

Bi-facial Glass-to-Glass

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Electrical Characteristics with different rear side power gain (Reference 585 Wp Front)				
Bi-Faciality Gain	10%	15%	20%	25%
Peak power Pmax (Wp)	644.00	673	702	731
Maximum Power Voltage Vmp (V)	43.47	43.55	43.68	43.77
Maximum Power Current Imp (A)	14.81	15.44	16.09	16.73
Open Circuit Voltage Voc (V)	51.98	52.08	52.19	52.29
Short Circuit Current Isc (A)	15.86	16.58	17.31	18.03
Module Efficiency (%)	24.91%	26.04%	27.18%	28.31%

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Module Weight (KG)	30 Kg				
IP Rating	IP 68 (With Potting)				
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors				
Frame	Silver Anodized aluminium alloy				
Glass	Front 2.0mm ARC; Back 2.0mm Non ARC				
Cell Encapsulant	High quality Encapsulant				
Backsheet	Glass				
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)				
Application Class	Class A (Safety Class II)				

Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24575TG144 BI-GL	LUM 24580TG144 BI-GL	LUM 24585TG144 BI-GL	LUM 24590TG144 BI-GL	LUM 24595TG144 BI-GL
Operating Temperature	-40°C to +85°C				
Temp coefficient of Open Circuit Voltage	-0.26%/°C				
Temp coefficient of Short Circuit Current	+0.046%/°C				
Temperature coefficient of Power	-0.31%/°C				
NOCT	45°C ± 2°C				

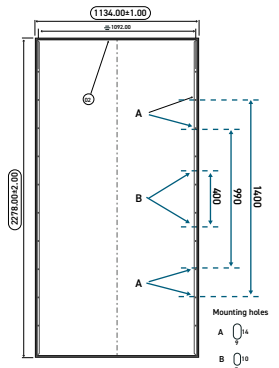
Warranty and Certifications	LUM 24575TG144 BI-GL	LUM 24580TG144 BI-GL	LUM 24585TG144 BI-GL	LUM 24590TG144 BI-GL	LUM 24595TG144 BI-GL
Product Warranty	12 Years				
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30				
Approvals and Certificates*	BIS certified as per IS/IEC standards				

LUMINOUS

SOLAR

Solar Module Dimension

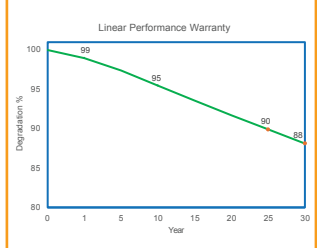
LUM24585T144 BI-GL



IV Curve



Linear Graph



*Approvals & Certifications

IEC 61853-1 | IEC 61853-1
 IEC EC 62759-1 | IEC 61853-2 |
 IEC 61853-2 | IEC 62716 |
 IEC 62759-1 | IEC 61701 |
 IEC TS 62804 -1 | IEC 60068-2-68 |
 IEC 60068-2-68 | IEC TS 62804-1 |
 IEC 61701 | IEC 62716

Packaging Information

Container	32 Feet
Modules per pallet	36 Nos.
Pallets per container	16 Nos.
Modules per container	576 Nos.

MONO PERC HALF CUT

DCR Panels - 540W/545W/550W

Mono PERC half-cut solar panels consist of solar cells that are cut in half in order to improve the panel's performance and durability. When the panels are halved, the current also gets halved, which reduces the resistive losses and allows solar cells to produce more power. All this leads to increased efficiency and greater durability.



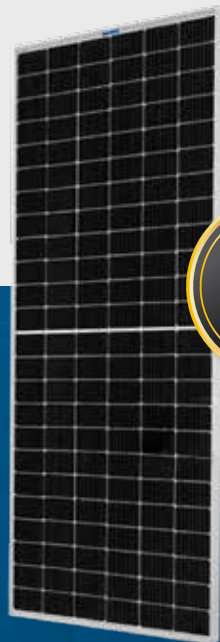
25 Years
Performance Warranty



12 Years
Product Warranty



Enlisted under
ALMM Order



Premium Grade A Cells
For superior performance and durability.



Anti-reflection Coating
Reduces light reflection to increase efficiency.



PID Free
Prevents potential-induced degradation, ensuring long-term



LOW-LIGHT

Excellent Power Generation under Low Light
Optimizes energy production in various conditions.



UNSW Specified Cell Qualification
Ensures best quality panel offerings

Our solar panels are included in Detailed List of Manufacturers and Models of Solar PV Modules Recommended under ALMM Order

Bi-facial Transparent Backsheet

Electrical Data STC*	LUM 24540M (Mono-Facial)	LUM 24540M BI-TS	LUM 24545M BI-TS	LUM 24550M BI-TS
Peak power, Pmax(Wp)	540	540	545	550
Maximum Power Voltage Vmp (V)	41.92	41.92	41.96	42.00
Maximum Power Current Imp (A)	12.89	12.89	12.99	13.1
Open Circuit Voltage Voc (V)	49.40	49.40	49.44	49.48
Short circuit current, Isc (A)	13.72	13.72	13.83	13.95
Module efficiency (%)	20.89	20.89	21.09	21.62
Maximum System Voltage (V)	1500V	1500V	1500V	1500V

*Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Characteristics with different rear side power gain (Reference 545 Wp Front)	LUM 24545M BI-TS				LUM 24550M BI-TS			
Bi-Faciality Gain	10%	15%	20%	25%	10%	15%	20%	25%
Peak power Pmax (Wp)	599	626	654	681	605	632	660	687
Maximum Power Voltage Vmp (V)	41.96	41.96	41.96	41.96	42	42	42	42
Maximum Power Current Imp (A)	14.28	14.92	15.59	16.23	14.41	15.05	15.71	16.36
Open Circuit Voltage Voc (V)	49.42	49.37	49.44	49.41	49.51	49.49	49.53	49.48
Short Circuit Current Isc (A)	15.21	15.91	16.6	17.29	15.35	16.04	16.74	17.44
Module Efficiency (%)	23.03	24.19	25.16	26.32	23.42	24.39	25.55	26.52

Mechanical Data	LUM 24540M (Mono-Facial)	LUM 24540M BI-TS	LUM 24545M BI-TS	LUM 24550M BI-TS
Cell Type	Mono PERC Half Cut			
No. of Cells	144			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	25 A			
Module Dimensions (mm)	2278 x 1134 x 30			
Module Weight (KG)	28.3			
IP Rating	IP 67			
Cable	300 mm length cables			
Frame	Silver andonized aluminium alloy			
Glass	3.2 mm thick high transmission low iron tempered glass, AR coated			
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)			
Backsheet	White	Transparent		
Maximum surface load capacity	5400 Pa			
Application Class	Class A (Safety Class II)			

Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24540M (Mono-Facial)	LUM 24540M BI-TS	LUM 24545M BI-TS	LUM 24550M BI-TS
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.3%/°C			
Temp coefficient of Short Circuit Current	+0.06%/°C			
Temperature coefficient of Power	-0.35%/°C			

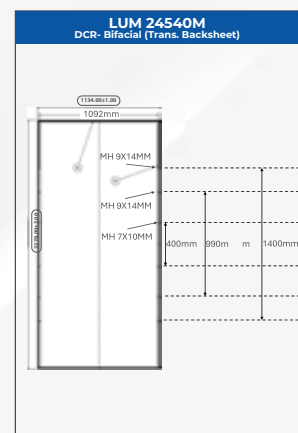
Warranty and Certifications	LUM 24540M (Mono-Facial)	LUM 24540M BI-TS	LUM 24545M BI-TS	LUM 24550M BI-TS
Product Warranty	12 Years			
Performance Warranty	Linear performance warranty for 25 years with 2% for 1st year degradation and 0.55% from year 2 to 25			
Approvals and Certificates**	BIS certified as per IS/IEC standards			

Packaging Information	LUM 24540M (Mono-Facial)	LUM 24540M BI-TS	LUM 24545M BI-TS	LUM 24550M BI-TS
Container	32 Feet			
Modules per pallet	36 Nos.			
Pallets per container	16 Nos.			
Modules per container	576 Nos.			

LUMINOUS

SOLAR

Solar Module Dimension



Linear Graph



**Certifications

IEC 61853-1 | IEC 61853-1
 IEC EC 62759-1 | IEC 61853-2 |
 IEC 61853-2 | IEC 62716 |
 IEC 62759-1 | IEC 61701 |
 IEC TS 62804 -1 | IEC 60068-2-68 |
 IEC 60068-2-68 | IEC TS 62804-1 |
 IEC 61701 | IEC 62716

Bi-facial Glass-to-Glass



Electrical Data STC*	LUM 24540M BI-GL	LUM 24545M BI-GL	LUM 24550M BI-GL
Peak power, Pmax(Wp)	540	545	550
Maximum Power Voltage Vmp (V)	41.92	41.96	42.00
Maximum Power Current Imp (A)	12.89	12.99	13.1
Open Circuit Voltage Voc (V)	49.40	49.44	49.48
Short circuit current, Isc (A)	13.72	13.83	13.95
Module efficiency (%)	20.89%	21.09%	21.62%
Maximum System Voltage (V)	1500V	1500V	1500V

*Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Characteristics with different rear side power gain (Reference 545 Wp Front)	LUM 24545M BI-GL				LUM 24550M BI-GL			
Bi-Faciality Gain	10%	15%	20%	25%	10%	15%	20%	25%
Peak power Pmax (Wp)	599	626	654	681	605	632	660	687
Maximum Power Voltage Vmp (V)	41.96	41.96	41.96	41.96	42	42	42	42
Maximum Power Current Imp (A)	14.28	14.92	15.59	16.23	14.41	15.05	15.71	16.36
Open Circuit Voltage Voc (V)	49.42	49.37	49.44	49.41	49.51	49.49	49.53	49.48
Short Circuit Current Isc (A)	15.21	15.91	16.6	17.29	15.35	16.04	16.74	17.44
Module Efficiency (%)	23.03%	24.19%	25.16%	26.32%	23.42%	24.39%	25.55%	26.52%

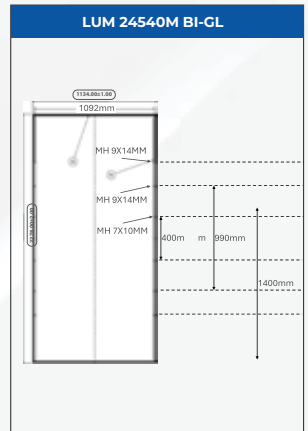
Mechanical Data	LUM 24540M BI-GL	LUM 24545M BI-GL	LUM 24550M BI-GL
Cell Type	Mono PERC Half Cut		
No. of Cells	144		
Rated Module Voltage (V)	24		
Maximum Series Fuse Rating	25 A		
Module Dimensions (mm)	2278 x 1134 x 30		
Module Weight (KG)	29 KG		
IP Rating	IP 67		
Cable	300 mm length cables		
Frame	Silver anodized aluminium alloy		
Glass	Front 2.0mm ARC; back 2.0mm Non-ARC		
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)		
Backsheet	Glass		
Maximum surface load capacity	5400 Pa		
Application Class	Class A (Safety Class II)		

Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24540M BI-GL	LUM 24545M BI-GL	LUM 24550M BI-GL
Operating Temperature	-40°C to +85°C		
Temp coefficient of Open Circuit Voltage	-0.266%/°C		
Temp coefficient of Short Circuit Current	0.044%/°C		
Temperature coefficient of Power	-0.325%/°C		

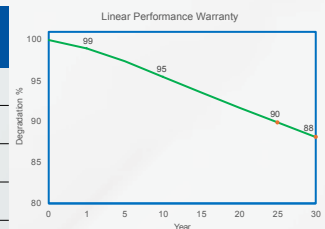
Warranty and Certifications	LUM 24540M BI-GL	LUM 24545M BI-GL	LUM 24550M BI-GL
Product Warranty	12 Years		
Performance Warranty	Linear performance warranty for 25 years with 2% for 1st year degradation and 0.55% from year 2 to 25		
Approvals and Certificates**	BIS certified as per IS/IEC standards		

Packaging Information	LUM 24540M BI-GL	LUM 24545M BI-GL	LUM 24550M BI-GL
Container	32 Feet		
Modules per pallet	36 Nos.		
Pallets per container	16 Nos.		
Modules per container	576 Nos.		

Solar Module Dimension



Linear Graph



**Certifications

IEC 61853-1 | IEC 61853-1
 IEC EC 62759-1 | IEC 61853-2 |
 IEC 61853-2 | IEC 62716 |
 IEC 62759-1 | IEC 61701 |
 IEC TS 62804 -1 | IEC 60068-2-68 |
 IEC 60068-2-68 | IEC TS 62804-1 |
 IEC 61701 | IEC 62716

POLYCRYSTALLINE SOLAR PANEL

Designed For High Performance

Polycrystalline solar panels consist of multiple photovoltaic cells, and each cell contains silicon crystals. They are a slice cut from a block of silicon, consisting of a number of crystals. These crystals make the panels function like a semiconductor and thus generate electricity. They do not require the placement and shaping of each crystal and therefore produce less waste.



25 Years
Performance Warranty



5 years
Product Warranty



Enlisted under
ALMM Order



Premium Grade A Cells
For superior performance and durability.



Anti-reflection Coating
Reduces light reflection to increase efficiency.



PID Free
Prevents potential-induced degradation, ensuring long-term reliability.



Excellent Power Generation under Low Light
Optimizes energy production in various conditions.



UNSW Specified Cell Qualification
Ensures best quality panel offerings

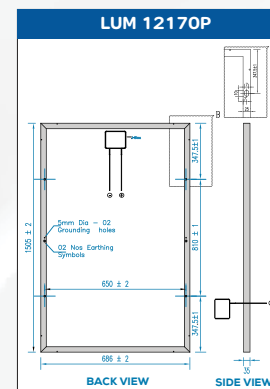
Our solar panels are included in Detailed List of Manufacturers and Models of Solar PV Modules Recommended under ALMM Order

Electrical Parameters @ STC*

Model ALMM Reference Model	LUM 12170P
Cell Type	Poly
No. of Cells	36
Peak Power P _{Max} (Wp)	170Wp
Rated Module Voltage (V)	12V
Maximum Power Voltage V _{mp} (V)	18.86V
Maximum Power Current I _{mp} (A)	9.02A
Open Circuit Voltage V _{oc} (V)	23.01V
Short Circuit Current I _{sc} (A)	9.61A
Module Efficiency (%)	16.47
Maximum System Voltage (V)	600V
Maximum Series Fuse Rating	10A

*STC (1000W/m²), AM1.5, cell temperature 25°C". Power Tolerance : 0/+5%. Power measurement accuracy:±3%

Solar Module Dimension



Mechanical Data

Module Dimensions (mm) LxWxT	1505X686X35
Module Weight (kgs)	11
IP Rating	IP 65
Cable	1000mm
Frame	Silver Anodized Aluminium
Glass	3.2mm ARC
Cell Encapsulant	EVA
Back Sheet	White Backsheet
Maximum Surface Load Capacity	5400 Pa (Pascals)
Aplication Class	Class A (Safety Class II)

Permissible Operating Conditions

Operating Temperature	- 40°C to + 85°C
Temp coefficient of Open Circuit Voltage	-0.23 %/°C
Temp coefficient of Short Circuit Current	0.07 %/°C
Temp coefficient of Power	-0.29 %/°C

Warranty and Certifications

Product Warranty**	5 Years
Performance Warranty**	Linear Performance Warranty for 25 Years with 3% for 1st year degradation and 0.70% from year 2 to 25
Approvals and Certificates	BIS certified as per IS/IEC standards

** Refer to Luminous Warranty document for Terms and conditions.
Technical specifications are subject to change without prior notice.

GRID TIE INVERTERS

Perfect Blend of Safety and Efficiency

The NXi range from Luminous is available in single and three phase configurations. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities from 2kW-100 kW.



>99%
Efficiency



10* Years
Warranty



Remote
Monitoring



MPPT **Maximum Power Point Tracking**
MPPT charge controllers are more efficient compared to PWM charge controllers as they convert 30% more power from solar panels.



Anti-Islanding Protection
Disconnects the inverter from grid during power failure preventing any electrical shock to the linemen at work.



IV Curve Scanning
Allows IV curve scanning for each panel string & identify fault or abnormality (25kW & above models)



String Level Monitoring
Allows monitoring at each individual string level to ensure consistent output of system (25kW & above models)



Night SVG Function
Helps in providing sufficient reactive power required by grid & produces 60% of reactive power of its rated max output (50kW & above models)

*Only for 3 phase GTI Models till 31st Dec 2026

*For 1 Phase 8 Years standard + 2 Years extended warranty

Solar Estimation Chart

Solution		Panel Connection Combination per MPPT (Series-Parallel)
GTI	PV Panel Watt	
NXI 2kW	590Wp/635Wp*4 Nos.	4 (S)
NXI 4kW	590Wp/635Wp*7 Nos.	7 (S)
NXI 6kW	590Wp/635Wp*11 Nos.	11 (S)
NXI 8kW	590Wp/635Wp*14 Nos.	14 (S)

Grid Tie System



Single Phase

Model Name	Nxi 120	Nxi 140
Rated output power (kW)	2	4
Input DC		
Max. DC Input Power (kW)	3	6.0
Max. DC Input Voltage (V)	550	550
Start-up Voltage [V]	80	100
MPPT Voltage range (V)	70 - 500	90 - 550
Max input current per MPPT (A)	16A	16A/16A
Number of MPPT	1	2
Max Input Strings Number	1	2
Output (AC)		
Rated output power (kW)	2	4
Max. output power [kW]	2.2	4.4
Max. output Current [A]	10.5	21
Grid Frequency range (Hz)	50/60Hz	
Power Factor (at rated output power)	0.8 ...1... 0.8	
Total harmonic distortion [THDi]	< 1.5%	
Feed-in phase/connection phase	Single Phase	
Efficiency		
Max. Efficiency	>97.2	>97.6
MPPT Efficiency	>99.5	
Protection		
Inbuilt Protections	DC Reverse Polarity Protection, Short Circuit Protection, O/P Over Current Protection, O/P Over voltage protection, Insulation resistance monitoring, Residual current detection, surge protection, Anti-Islanding Protection, Temperature Protection	
Interface		
DC Connection	MC4 Connectors	
Display	LCD 2X 20 Z	LED + Bluetooth App
Datalogger & Communication	RS485/GSM/Wi-Fi* (Optional)	
General Data		
Topology	Transformerless	
Consumption @ night	< 1 W	
Operating Temperature Range	-25°C to 60°C	
Cooling Method	Natural Convection	
Relative Humidity	0 - 100 %	
Max. Operational Altitude	4000m	
Noise [dBA]	<30dBA	
Designed Lifetime	> 20 years	
Ingress Protection	IP66	
Dimensions (W*H*D) (mm)	310W*373H*160D	310W *543H *160D
Net weight (Kg)	7.4	8.9
Standards		
Safety/EMC	BIS Certified as per IS/IEC standards	

* Check availability of GSM or Wi-Fi dongle before ordering.
 Technical specifications are subject to change without prior notice.
 For stock availability of models check with sales team.

Three Phase

MODEL	Nxi 305-S5	Nxi 306-S5	Nxi 308-S5	Nxi 312-S5	Nxi 315-S5	Nxi 320-S5
Rated output power (kW)	5	6	8	12	15	20
Input DC						
Max. DC Input Power (kW)	7.5	9.0	12	18	22.5	30
Max. DC Input Voltage (V)	1100					
Start-up Voltage [V]	180					
MPPT Voltage range (V)	160 - 1000					
Max input current per MPPT (A)	16A/16A			32A/32A		
Number of MPPT	2					
Max Input Strings Number	2			4		
Output (AC)						
Rated output power (kW)	5	6	8	12	15	20
Max. output power [kW]	5.5	6.6	8.8	13.2	16.5	22
Max. output Current [A]	8.4	10	13.4	20.1	25.1	33.3
Grid Frequency range (Hz)	50/60 Hz					
Power Factor (at rated output power)	0.8 ...1... 0.8					
Total harmonic distortion [THDi]	<2%					
Feed-in phase/connection phase	Three Phase					
Efficiency						
Max. Efficiency	98.30%			98.60%		
MPPT Efficiency	99.5%					
Protection						
Inbuilt Protections	DC Reverse Polarity Protection, Short Circuit Protection, O/P Over Current Protection, O/P Over voltage protection, Insulation resistance monitoring, Residual current detection, surge protection, Anti-Islanding Protection, Temperature Protection, Integrated DC Switch (optional)					
Interface						
DC Connection	MC4 Connectors					
Display	LCD 2X 20Z					
Datalogger & Communication	RS485/GSM/Wi-Fi* (Optional)					
General Data						
Topology	Transformerless					
Consumption @ night	< 1 W					
Operating Temperature Range	-25°C to 60°C					
Cooling Method	Natural Convection			Intelligent Redundant Fan Colling		
Relative Humidity	0 to 100%					
Max. Operational Altitude	4000m					
Noise [dBA]	<30 dBA					
Designed Lifetime	> 20 years					
Ingress Protection	IP66					
Dimensions (W*H*D) (mm)	310W*563H*129D			310W*608H*219D		
Net weight (Kg)	17.8			18.8		20
Standards						
Safety/EMC	BIS Certified as per IS/IEC standards					

* Check availability of GSM or Wi-Fi dongle before ordering.
 Technical specifications are subject to change without prior notice.
 For stock availability of models check with sales team.

Three Phase

MODEL	Nxi 325-S5	Nxi 330-S5	Nxi 350-S5	Nxi 360-S5	Nxi 380-Pro	Nxi 3100-Pro
Rated output power (kW)	25	30	50	60	80	100
Input DC						
Max. DC Input Power (kW)	37.5	45	75	90	120	150
Max. DC Input Voltage (V)	1100					
Start-up Voltage [V]	180	200			180	
MPPT Voltage range (V)	200-1000				160 - 1000	
Max input current per MPPT (A)	32A/32A/32A		4*28.5A		3*40A+3*32A	4*40A+4*32A
Number of MPPT	3		4		6	8
Max Input Strings Number	6		12		12	16
Output (AC)						
Rated output power (kW)	25	30	50	60	80	100
Max. output power [kW]	27.5	33	55	66	88	110
Max. output Current [A]	27.5	33	72.2	86.6	133.7	167.1
Grid Frequency range (Hz)	50/60 Hz		47-52 or 57-62			50/60 Hz
Power Factor (at rated output power)	0.8...1... 0.8					
Total harmonic distortion [THDi]	<3%			<2%	<3%	
Feed-in phase/connection phase	Three Phase					
Efficiency						
Max. Efficiency	98.5%		98.7%		98.5%	
MPPT Efficiency	>99.5%				99.5%	
Protection						
Inbuilt Protections	DC Reverse Polarity Protection, Short Circuit Protection, O/P Over Current Protection, O/P Over voltage protection, Insulation resistance monitoring, Residual current detection, surge protection, Anti-Islanding Protection, Temperature Protection, Integrated DC Switch (optional)					
Interface						
DC Connection	MC4 Connectors					
Display	LCD, 2x20 Z					
Datalogger & Communication	RS485/GSM/Wi-Fi (Optional)					
General Data						
Topology	Transformerless					
Consumption @ night	< 1 W				< 2 W	
Operating Temperature Range	-25°C to 60°C					
Cooling Method	Intelligent redundant fan cooling					
Relative Humidity	0 to 100%					
Max. Operational Altitude	4000m					
Noise [dBA]	<30 dBA		<60 dBA		<65 dBA	
Designed Lifetime	> 20 years					
Ingress Protection	IP66					
Dimensions (W*H*D) (mm)	647W*629H*252D		630W*700H*357D		1065W*587H*363D	1183W*585H*363D
Net weight (Kg)	37		63		79.5	93
Standards						
Safety/EMC	BIS Certified as per IS/IEC standards					

* Check availability of GSM or Wi-Fi dongle before ordering.

Technical specifications are subject to change without prior notice.

For stock availability of models check with sales team.

GRID TIE INVERTERS - NXI A

Ideal for Utility Scale & KUSUM Scheme

The NXIA series from is available in Three phase configuration. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities 250kw & 350kw.



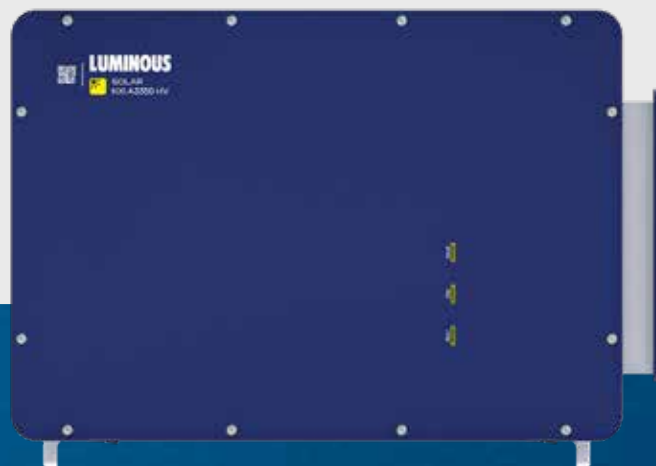
>99%
Efficiency



10 Years
Warranty



Remote
Monitoring



MPPT

Maximum Power Point Tracking

MPPT charge controllers are more efficient compared to PWM charge controllers as they convert 30% more power from solar panels.



Anti-Islanding Protection

Disconnects the inverter from grid during power failure preventing any electrical shock to the linemen at work.



Inbox Wi-Fi Dongle

Easy plug-and-play connectivity for GTI, enabling real-time monitoring, remote access, and smart data logging.



Up to 150% DC overloading

higher power generation during low-light and peak demand hours, ensuring better utilization of your inverter

Three Phase

NXI A3250		NXI A3350
Input (DC)		
Max. input voltage	1500V	
MPP voltage range / rated input voltage	500V - 1500 V / 1080 V	
Min. input voltage	500 V	
Initial. feed-in voltage	550 V	
Max. operating input current	75A	
Max. short circuit current	113A	
No. of independent MPPT inputs / strings per MPPT input	5/5	6/5
Output (AC)		
AC output power	250000 VA@30°C 250000 VA@40°C 250000 VA@50°C	352000 VA@30°C 352000 VA@40°C 325000 VA@50°C
AC nominal voltage	800V	
AC voltage range	640 V - 920 V	
AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz	
Max. output current	198.5 A	254 A
Adjustable power factor range	0.8 leading to 0.8 lagging	
Feed-in phases	3 / 3-PE	
Harmonic distortion (THD) at rated output	< 3%	
Efficiency & Protection		
Max. efficiency	99.01%	
DC switch	✓	
Anti-islanding Protection	✓	
AC Overcurrent Protection	✓	
DC reverse connection protection	✓	
AC short circuit protection	✓	
PV string monitoring	✓	
DC Surge Protection	Type II	
AC Surge Protection	Type II	
Residual Current Monitoring Unit	✓	
Ground fault monitoring	✓	
Grid monitoring	✓	
General data		
Dimensions (W / H / D)	1158 x 760 x 382 mm	
Weight	≤ 116 kg	≤ 117 kg
Operating temperature range	-30°C...+60°C	
Self-consumption (at night)	< 5 W	
Topology	Non-isolated	
Cooling concept	Smart active cooling	
Degree of protection	IP66	
Max. permissible value for relative humidity	0~100% (Non-Condensing)	
Max. operating altitude	5000m (4000m derating)	
Features		
DC Connector	DC Plug-in connector	
AC Connector	OT/DT Terminal (Max.500mm2)	
Display	LED+Bluetooth APP	
USB	✓	
Communication	RS485/ PLC	
Certificates and approvals (more available on request)	IEC 62109-1/2, IEC 61727, IEC 62116, IEC 61683, IEC 60086, EN 50549-1/2	

GRID TIE INVERTERS - NXIT

Perfect Blend of Safety and Efficiency

The NXIT series from is available in single and Three phase configuration. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities 3kw, 5Kw and 10kW.



>99%
Efficiency



10 Years
Warranty



Remote
Monitoring



MPPT

Maximum Power Point Tracking

MPPT charge controllers are more efficient compared to PWM charge controllers as they convert 30% more power from solar panels.



Anti-Islanding Protection

Disconnects the inverter from grid during power failure preventing any electrical shock to the linemen at work.



Inbox Wi-Fi Dongle

Easy plug-and-play connectivity for GTI, enabling real-time monitoring, remote access, and smart data logging.



Up to 150% DC overloading

higher power generation during low-light and peak demand hours, ensuring better utilization of your inverter

Grid Tie System



Inbox Wi-Fi Dongle



Single Phase & Three Phase

Model Name	NXIT130	NXIT150	NXIT310
Rated output power (kW)	3	5	10
INPUT DC			
Max. DC Input Power (kW)	4.5	7.5	15.0
Max. DC Input Voltage (V)	550	550	1000
Start-up Voltage [V]	75	75	125
MPPT Voltage range (V)	100 - 500	100 - 500	160-850
Max input current per MPPT (A)	18A	22A	18A
Number of MPPT	1	1	2
Max Input Strings Number	1	1	1
OUTPUT (AC)			
Rated output power (kW)	3	5	10
Max. output power [kW]	3.3	5.5	11.0
Max. output Current [A]	16	23.0	17.0
Grid Frequency range (Hz)	50/60Hz		
Power Factor (at rated output power)	0.8 ... 1... 0.8		
Total harmonic distortion [THDi]	< 1.5%	< 2.5%	< 5%
Feed-in phase/connection phase	Single Phase		Three Phase
EFFICIENCY			
Max. Efficiency	97.5%	97.5%	98.4%
MPPT Efficiency	>99.9		
PROTECTION			
Inbuilt Protections	DC Reverse Polarity Protection, Short Circuit Protection, O/P Over Current Protection, O/P Over voltage protection, Insulation resistance monitoring, Residual current detection, surge protection, Anti-Islanding Protection, Temperature Protection		
INTERFACE			
DC Connection	MC4 Connectors		
Display	LCD	LCD	LCD
Datalogger & Communication	Standard Wi-Fi / RS485 (optional)		Wi-Fi / RS485/ GPRS
GENERAL DATA			
Topology	Transformerless		
Consumption @ night	< 0.2 W		
Operating Temperature Range	-25°C to 60°C		
Cooling Method	Smart Cooling		
Relative Humidity	0 - 95 % (No Condensation)		
Max. Operational Altitude	2000m		
Noise [dBA]	<25dBA		
Designed Lifetime	> 20 years		
Ingress Protection	IP65		
Dimensions (W*H*D) (mm)	300W*294H*104D	370W *318.5H *105.5D	480W *476H *157D
Net weight (Kg)	5.0	7.0	16.0
STANDARDS			
Safety/EMC	BIS Certified as per IS/IEC standards		

Technical specifications are subject to change without prior notice.

For more information



youtube/user/myluminousindia



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Videos & more product information.

HYBRID HF INVERTERS -NXH 1P

Perfect Blend of Safety and Efficiency

The Single-Phase Solar Hybrid HF NXH Inverter is engineered with advanced, high-efficiency technology to deliver reliable performance in both residential and commercial applications. Its transformer-less architecture ensures exceptional energy conversion efficiency of more than 98%, making it one of the most efficient solutions in its class. Built with stringent safety features, the NXH inverter includes anti-islanding protection, ensuring immediate disconnection from the grid during a power outage to protect users and utility workers.



>98%
Efficiency



5 Years
Warranty



Remote
Monitoring



Supports both LiB/Lead Acid battery for backup mode.

Works seamlessly with both Lithium-ion and Lead-Acid backup batteries to the linemen at work



Compact wall mount design, quick & easy to install

Space-saving wall-mount design engineered for fast, hassle-free installation.



Can run without battery

Can work as Off grid & On Grid Inverter.



150% PV oversizing or DC overload support.

Supports up to 150% PV array oversizing for enhanced generation.



Wi-fi dongle inbox.

Supplied with a Wi-Fi dongle for wireless monitoring with app.

Technical Specifications

Model	NXH 130 A48
PV Input	
Max. PV Input Power(kW)	4.5
Max. PV Open Circuit Voltage(V)	550
MPPT Range@Operating Voltage(VDC)	80~520
Full Power MPPT Voltage Range(VDC)	117-500
Start-up Voltage(VDC)	90
Max. Input Current per MPPT(A)	19/19
Max. Short-circuit Current(A)	25/25
MPPT Tracker/Strings	2/1
Nominal Input Voltage(V)	360
AC Output(On-Grid)	
Nominal Output Power to Grid(kW)	3
Max. Apparent Power to Grid(kVA)	3
Max. Apparent Power from Grid(kVA)	3
Max. Apparent Current from Grid(A)	13.1
Nominal Output Current from Grid(A)	13.1
Max. Output Current to Grid(A)	13.1
Nominal Voltage/Frequency	230V, 50/60Hz, L+N+PE
Adjustable Power Factor	0.8leading~0.8lagging
THDi	<2%
AC Output(BackUp)	
Nominal Output Power(kW)	3
Max. Apparent Power(kVA)	3
Nominal Output Current(A)	13.1
Max. Output Current(A)	13.1
Nominal Voltage/Frequency	230V, 50/60Hz, L+N+PE
Automatic Switch Time(ms)	<20
THDv	<2%
Overload Capacity	110%-30s, 120%-10s, 150%-0.02s
Efficiency	
Max. Efficiency	98%
Euro Efficiency	97.50%
MPPT Efficiency	99.00%
Max. Battery Charge/Discharge Efficiency	94.60%
Battery	
BatteryVoltage Range(V)	40~60
Recommended Battery Voltage(V)	48
Max. Charging Voltage(V)	60
Max. Charging/Discharging Current(A)	80/80
BatteryType	Lithium and Lead Acid Battery
Protection	
DC Switch	Yes
DC Reverse Polarity Protection	Yes
DC/AC Surge Protection	Type II/Type II
AC Overvoltage Protection	Yes
AC Short-circuit Protection	Yes
Ground Fault Monitoring	Yes
Anti-islanding Protection	Yes
Residual-current Monitoring	Yes
Insulation Resistance Monitoring	Yes
Peak/Valley Time Setting	Yes
General Data	
HMI	LCD & APP
BMS Comm	RS485; CAN
EMS/Meter Comm	RS485
WiFi Dongle	Inbox WiFi Dongle
Ingress Protection	IP66
Operating Temperature Range	-25~60°C(Derating above 40°C)
Relative Humidity	0~95%(Non-condensing)
Max. Operating Altitude	4000m(Derating above 3000m)
Cooling	Natural
Noise Emission	≤29dB
Dimensions(W*H*D)	485 * 527 * 230mm
Net Weight(kg)	22
Self-consumption(W)	<10
Standard Compliance	
BIS	Complied
Safety Regulation	IEC/EN62109-1/-2
EMC	IEC/EN61000-6-1/-2/-3

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Technical Specifications

Model	NXH 150 A48
PV Input	
Max. PV Input Power(kW)	7.5
Max. PV Open Circuit Voltage(V)	550
MPPT Range@Operating Voltage(VDC)	80~520
Full Power MPPT Voltage Range(VDC)	197-500
Start-up Voltage(VDC)	90
Max. Input Current per MPPT(A)	19/19
Max. Short-circuit Current(A)	25/25
MPPT Tracker/Strings	2/1
Nominal Input Voltage(V)	360
AC Output(On-Grid)	
Nominal Output Power to Grid(kW)	5
Max. Apparent Power to Grid(kVA)	5
Max. Apparent Power from Grid(kVA)	5
Max. Apparent Current from Grid(A)	21.8
Nominal Output Current from Grid(A)	21.8
Max. Output Current to Grid(A)	21.8
Nominal Voltage/Frequency	230V, 50/60Hz, L+N+PE
Adjustable Power Factor	0.8leading~0.8lagging
THDi	<2%
AC Output(BackUp)	
Nominal Output Power(kW)	5
Max. Apparent Power(kVA)	5
Nominal Output Current(A)	21.8
Max. Output Current(A)	21.8
Nominal Voltage/Frequency	230V, 50/60Hz, L+N+PE
Automatic Switch Time(ms)	<20
THDv	<2%
Overload Capacity	110%-30s, 120%-10s, 150%-0.02s
Efficiency	
Max. Efficiency	98%
Europe Efficiency	97.50%
MPPT Efficiency	99.00%
Max. Battery Charge/Discharge Efficiency	94.60%
Battery	
BatteryVoltage Range(V)	40~60
Recommended Battery Voltage(V)	48
Max. Charging Voltage(V)	60
Max. Charging/Discharging Current(A)	120/120
BatteryType	Lithium and Lead Acid Battery
Protection	
DC Switch	Yes
DC Reverse Polarity Protection	Yes
DC/AC Surge Protection	Type II/Type II
AC Overvoltage Protection	Yes
AC Short-circuit Protection	Yes
Ground Fault Monitoring	Yes
Anti-islanding Protection	Yes
Residual-current Monitoring	Yes
Insulation Resistance Monitoring	Yes
Peak/Valley Time Setting	Yes
General Data	
HMI	LCD & APP
BMS Comm	RS485; CAN
EMS/Meter Comm	RS485
Communication	WiFi(standard)/GPRS(opt)/4G(opt)
Ingress Protection	IP66
Operating Temperature Range	-25~60°C(Derating above 40°C)
Relative Humidity	0~95%(Non-condensing)
Max. Operating Altitude	4000m(Derating above 3000m)
Cooling	Natural
Noise Emission	≤29dB
Dimensions(W*H*D)	485 * 527 * 230mm
Net Weight(kg)	24
Self-consumption(W)	<10
Standard Compliance	
BIS	Complied
Safety Regulation	IEC/EN62109-1/-2
EMC	IEC/EN61000-6-1/-2/-3

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HYBRID HF INVERTERS -NXH 3P

Perfect Blend of Safety and Efficiency

The Three Phase Solar Hybrid HF NXH Inverter is engineered with advanced, high-efficiency technology to deliver reliable performance in both residential and commercial applications. Its transformer-less architecture ensures exceptional energy conversion efficiency of more than 98.4%, making it one of the most efficient solutions in its class.



>98.4%
Efficiency



10 Years
Warranty



Remote
Monitoring



Supports both LiB/Lead Acid battery for backup mode.

Works seamlessly with both Lithium-ion and Lead-Acid backup batteries to the linemen at work.



Up to 4 Units parallel operation possible

We can enhance the inverter rating up to 48kW by paralleling.



Can run without battery

Work like Grid Tie Inverter.



Wi-fi dongle inbox

Supplied with a Wi-Fi dongle for wireless monitoring with app.



Compact wall mount design, quick & easy to install

Space-saving wall-mount design engineered for fast, hassle-free installation.

Technical Specifications

Model	NXH 308 A
PV Input	
Max. PV array power	12000Wp
Max. input voltage	1100V
MPPT voltage range / rated input voltage	200V to 950V / 630V
Min. input voltage / start voltage	60V / 180V
No. of independent MPPT / strings per MPPT input	2 / 1
Max. input current / Max. power per MPPT	20A / 10000W
Max. short-circuit current per MPPT	30A
Battery Input	
Battery voltage range	120V to 600V
Max. charging / discharging power	8000W
Max. charging current / Max. discharging current	30A
Battery type	LiFePO4
AC Input	
Rated grid voltage	3/N/PE, 220V / 380V ; 230V / 400V; 240V / 415V
Rated grid frequency	50Hz / 60Hz
Max. input power from grid	16000W
Max. input current from grid	23.2A
AC Output	
AC voltage range / Nominal AC voltage	270V to 480V / 3 / N/PE, 220V / 380V ; 230V / 400V; 240V / 415V
Rated AC grid frequency	50Hz / 60Hz
AC grid frequency range	45 - 55Hz / 55 - 65Hz
Rated apparent power	8000VA
Rated grid output current (@400V)	11.6A
Max. grid output current (@400V)	12.8A
Harmonics THDi (@ Nominal power)	< 3%
EPS Output	
Nominal output voltage	3/N/PE, 220V / 380V ; 230V / 400V; 240V / 415V
Nominal output frequency	50 Hz / 60Hz
Rated apparent power	8000VA
Rated current (@400V)	11.6A
Max. current (@400V, continuous on-grid / off-grid)	23.2A / 11.6A
Max. power on each phase (@400V, continuous on-grid / off-grid)	5333W / 2667W
Peak output apparent power (@400V, continuous on-grid / off-grid up to 10s)	16000VA / 16000VA
Max. switch time	< 10ms
Output THDv (@ Linear load)	2%
Overload Capacity	110% - 130% -> 150Sec, 131% - 150% -> 60Sec, > 150% -> 10Sec
Efficiency	
MPPT efficiency	99.9%
Euro efficiency / Max. efficiency	97.9% / 98.4%
Safety Protection	
DC surge protection (Type II, according to EN/IEC 61643-11)	Yes
Insulation resistance detection	Yes
PV string input reverse polarity protection	Yes
Battery input reverse polarity protection	Yes
Ground fault monitoring	Yes
Residual current monitoring unit	Yes
AC short circuit protection	Yes
Anti-islanding protection	Yes
General Data	
Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging
Dimensions (W * H * D) mm	545 * 465 * 205
Weight	24.5 kg
Operating temperature range	-25°C ... +60°C
Cooling concept	Natural convection
Noise emission	< 35dB
Degree of protection (as per IEC 60529)	IP66
Max. relative humidity	1
Max. operating altitude	4000m
Features	
User interface	LED & App
BMS interface	CAN
Smart meter interface	RS485
Internet communication interfaces	Wifi / LAN
Digital output (dry contact) / No. of outputs	Yes / 2
Digital input (dry contact) / No. of inputs	Yes / 4
Integrated power control / export power control	Yes / Yes
Standard Compliance	
BIS	Complied
Safety Regulation	IEC/EN62109-1/-2
EMC	IEC/EN61000-6-1/-2/-3

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Technical Specifications

Model	NXH 310A
PV Input	
Max. PV array power	15000Wp
Max. input voltage	1100V
MPPT voltage range / rated input voltage	200V to 950V / 630V
Min. input voltage / start voltage	60V / 180V
No. of independent MPPT/strings per MPPT input	2 / 1
Max. input current / Max. power per MPPT	20A / 10000W
Max. short-circuit current per MPPT	30A
Battery Input	
Battery voltage range	120V to 600V
Max. charging / discharging power	10000W
Max. charging current / Max. discharging current	30A
Battery type	LiFePO4
AC Input	
Rated grid voltage	3/N/PE, 220V / 380V ; 230V / 400V; 240V / 415V
Rated grid frequency	50Hz / 60Hz
Max. input power from grid	20000W
Max. input current from grid	29.0A
AC Output	
AC voltage range / Nominal AC voltage	270V to 480V / 3 / N/PE, 220V / 380V; 230V / 400V; 240V / 415V
Rated AC grid frequency	50Hz / 60Hz
AC grid frequency range	45 - 55Hz / 55 - 65Hz
Rated apparent power	10000VA
Rated grid output current (@400V)	14.5A
Max. grid output current (@400V)	16.0A
Harmonics THDi (@ Nominal power)	< 3%
EPS Output	
Nominal output voltage	3/N/PE, 220V / 380V ; 230V / 400V; 240V / 415V
Nominal output frequency	50 Hz / 60Hz
Rated apparent power	10000VA
Rated current (@ 400V)	14.5A
Max. current (@400V, continuous on-grid / off-grid)	29.0A / 14.5A
Max. power on each phase (@400V, continuous on-grid / off-grid)	6667W / 3333W
Peak output apparent power (@400V, continuous on-grid / off-grid up to 0.1s)	20000VA / 20000VA
Max. switch time	< 10ms
Output THDv (@ Linear load)	2%
Overload Capacity	110% - 130% -> 150Sec, 131%-150% -> 60Sec, >150% -> 10Sec
Efficiency	
MPPT efficiency	99.9%
Euro efficiency / Max. efficiency	97.9% / 98.4%
Safety Protection	
DC surge protection (Type II, according to EN/IEC 61643-11)	Yes
Insulation resistance detection	Yes
PV string input reverse polarity protection	Yes
Battery input reverse polarity protection	Yes
Ground fault monitoring	Yes
Residual current monitoring unit	Yes
AC short circuit protection	Yes
Anti-islanding protection	Yes
General Data	
Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging
Dimensions (W * H * D)mm	545 * 465 * 205
Weight	24.5 kg
Operating temperature range	-25°C ... +60°C
Cooling concept	Natural convection
Noise emission	< 35dB
Degree of protection (as per IEC 60529)	IP66
Max. relative humidity	1
Max. operating altitude	4000m
Features	
User interface	LED & App
BMS interface	CAN
Smart meter interface	RS485
Internet communication interfaces	Wifi / LAN
Digital output (dry contact) / No. of outputs	Yes / 2
Digital input (dry contact) / No. of inputs	Yes / 4
Integrated power control / export power control	Yes / Yes
Standard Compliance	
BIS	Complied
Safety Regulation	IEC/EN62109-1/-2
EMC	IEC/EN61000-6-1/-2/-3

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Technical Specifications

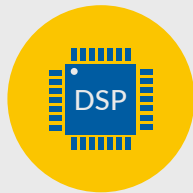
Model	NXH 31.2A
PV Input	
Max. PV array power	18000Wp
Max. input voltage	1100V
MPPT voltage range / rated input voltage	200V to 950V / 630V
Min. input voltage / start voltage	60V / 180V
No. of independent MPPT / strings per MPPT input	2 / 1
Max. input current / Max. power per MPPT	20A / 10000W
Max. short-circuit current per MPPT	30A
Battery Input	
Battery voltage range	120V to 600V
Max. charging / discharging power	12000W
Max. charging current / Max. discharging current	30A
Battery type	LiFePO4
AC Input	
Rated grid voltage	3/N/PE, 220V / 380V ; 230V / 400V; 240V / 415V
Rated grid frequency	50Hz / 60Hz
Max. input power from grid	24000W
Max. input current from grid	34.8A
AC Output	
AC voltage range / Nominal AC voltage	270V to 480V / 3 / N/PE, 220V / 380V; 230V / 400V; 240V / 415V
Rated AC grid frequency	50Hz / 60Hz
AC grid frequency range	45-55Hz / 55-65Hz
Rated apparent power	12000VA
Rated grid output current (@400V)	14.5A
Max. grid output current (@400V)	16.0A
Harmonics THDi (@ Nominal power)	< 3%
EPS Output	
Nominal output voltage	3/N/PE, 220V / 380V ; 230V / 400V; 240V / 415V
Nominal output frequency	50 Hz / 60Hz
Rated apparent power	12000VA
Rated current (@ 400V)	17.4A
Max. current (@400V, continuous on-grid / off-grid)	34.8A / 17.4A
Max. power on each phase (@400V, continuous on-grid / off-grid)	8000W / 4000W
Peak output apparent power (@400V, continuous on-grid / off-grid up to 10s)	24000VA / 24000VA
Max. switch time	< 10ms
Output THDv (@ Linear load)	2%
Overload Capacity	110% - 130% -> 150Sec, 131%-150% -> 60Sec, >150% -> 10Sec
Efficiency	
MPPT efficiency	99.9%
Euro efficiency / Max. efficiency	97.9% / 98.4%
Safety Protection	
DC surge protection (Type II, according to EN/IEC 61643-11)	Yes
Insulation resistance detection	Yes
PV string input reverse polarity protection	Yes
Battery input reverse polarity protection	Yes
Ground fault monitoring	Yes
Residual current monitoring unit	Yes
AC short circuit protection	Yes
Anti-islanding protection	Yes
General Data	
Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging
Dimensions (W * H * D)mm	545 * 465 * 205
Weight	24.5 kg
Operating temperature range	-25°C ... +60°C
Cooling concept	Natural convection
Noise emission	< 35dB
Degree of protection (as per IEC 60529)	IP66
Max. relative humidity	1
Max. operating altitude	4000m
Features	
User interface	LED & App
BMS interface	CAN
Smart meter interface	RS485
Internet communication interfaces	Wifi / LAN
Digital output (dry contact) / No. of outputs	Yes / 2
Digital input (dry contact) / No. of inputs	Yes / 4
Integrated power control / export power control	Yes / Yes
Standard Compliance	
BIS	Complied
Safety Regulation	IEC/EN62109-1/-2
EMC	IEC/EN61000-6-1/-2/-3

The information in this document is for reference only and does not constitute any invitation or commitment. The company may modify the content without notice.

HYBRID INVERTER

Savings & Backup All Together

Hybrid Inverter range from Luminous is a combination of an on-grid inverter and off-grid inverter making it more versatile than other solar inverters helping in lowering your electricity bills and protecting from power outages. It can supply solar power to run your electrical appliances, store electricity in batteries required during power outages as well as export excess power generated to grid. Available in 3KVA, 4KVA & 5KVA.



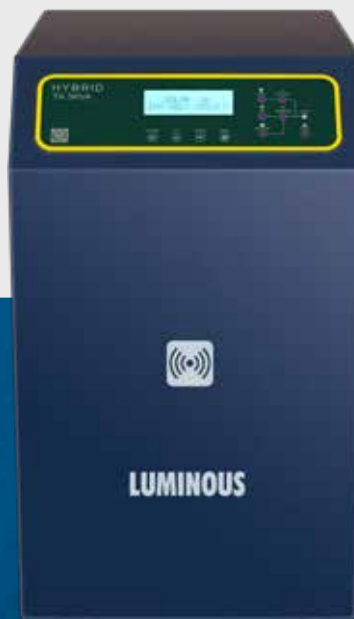
Advanced
DSP Control



Inbox Wi-Fi
dongle



3 Years
Warranty



**Export Excess Power
Generated & Also Get Backup**
Store electricity in battery for backup as
well as export excess electricity to grid



Max PV Capacity Utilization
Ensures that the connected solar
panels are used to their fullest potential,
even under varying load conditions



Anti-Islanding protection
Disconnects the inverter from
grid during power failure
preventing any electrical
shock to the linemen at work



Energy Independence
In case of grid unavailability,
automatically switches over to
battery supply, continuing
to operate independently from grid



Remote Monitoring
Multiple modes of connec-
tivity for remote monitoring
enables keeping track of
solar generation and
proactive maintenance

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Hybrid Inverter	Solar Battery	PV Panel Watt	
Hybrid Tx 3KVA	150Ah x 4	590Wp*6 Nos.	3 (S) 2 (P)
Hybrid Tx 3KVA	150Ah x 4	635Wp*4 Nos.	2 (S) 2 (P)
Hybrid Tx 4KVA	150Ah x 4	590Wp*8 Nos.	2 (S) 4 (P)
Hybrid Tx 4KVA	150Ah x 4	635Wp*6 Nos.	3 (S) 2 (P)
Hybrid Tx 5KVA	150Ah x 4	590Wp*9 Nos.	3 (S) 3 (P)
Hybrid Tx 5KVA	150Ah x 4	635Wp*6 Nos.	3 (S) 2 (P)

Hybrid Inverter



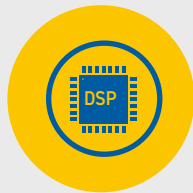
Technical Specifications

Model	HYBRID TX 3kVA	HYBRID TX 4kVA	HYBRID TX 5kVA
Nominal Battery Voltage (Vdc)	48V		
Output Waveform	Pure Sine Wave		
SOLAR PHOTOVOLTAIC INPUT			
Type of Charger	MPPT		
Maximum PV Power (kW)	3KW	4KW	5KW
Input Voltage Range (Voc)	70V – 170 V		
Input Voltage Range (Vmp)	58V – 132 V		
Maximum I/P Current (Array)	45A	60A	60A
Maximum MPPT Output current (A)	65A	80A	100A
Maximum Conversion Efficiency (%)	>93%		
GRID INPUT			
Input Supply Phase	Single Phase		
Grid Voltage Range	175V - 280V		
Nominal Grid Current (import)	20A	23A	29A
GRID OUTPUT			
Grid Current (export)	10.5 ± 2A	14A ± 2A	17A ± 2A
BATTERY			
Nominal Battery Voltage	48VDC		
Charging Stages	Boost, Float, Absorption		
INVERTER			
Switching Element	MOSFET		
Control	32 Bit DSP controlled		
Nominal Output Voltage (V) & Voltage range	230 V ± 2%		
Output Supply Phase	1 Phase 2 Wire		
Output waveform	Pure Sine Wave		
Nominal Frequency (Hz)	50 Hz		
Nominal Output Current (A)	10.5A	14A	17A
Output Voltage Distortion (THD)	<5%		
Overload at nominal output voltage	110% for 10 minutes, 125% for 1minute, 200% for 5 seconds		

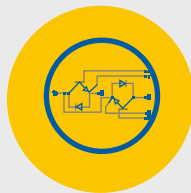
3 PHASE SOLAR HYBRID TX SERIES

Savings & Backup All Together

3 Phase Solar Hybrid TX is designed with advanced technology. It adopts double transform high frequency and high-performance digital control technique (DSP), with perfect protection, super network management function, reasonable man-machine interface, and a series of precision designs to meet high-reliability requirements. Experience a power that integrates reliability, safety, and maintainability characteristics.



Advanced
DSP Control



IGBT Based
Rectifier



3 Years
Warranty



**Export Excess Power
Generated & Also Get Backup**
Store electricity in battery for backup as
well as export excess electricity to grid



User Selectable Priority Settings
Allows users to choose among reduced
grid dependency & energy savings,
enhanced backup and autonomy from grid
and export access power when required



Anti-Islanding protection
Disconnects the inverter from
grid during power failure
preventing any electrical
shock to the linemen at work



Energy Independence
In case of grid unavailability,
automatically switches over to
battery supply, continuing
to operate independently from grid



Remote Monitoring
Multiple modes of connec-
tivity for remote monitoring
enables keeping track of
solar generation and
proactive maintenance

Applications



Petrol Pump



AC Unit



Cold Storage



Microgrid



Factory & Dairy
Equipment



Water Pump



ATM



Farmhouse



Primary Health
Care Center



Rural Bank



Government
Offices



Institutions

Hybrid Inverter



System Rating (kVA/kW)		10.5KVA/8.4kW
Open circuit voltage		400V
Maximum PV Power		10.5kW
Charge Controller		MPPT Charge Controller
MPPT Voltage Range		200 - 380
Switching Element		IGBT
Type of Charger		MPPT
Charger Efficiency		>95%
GRID		
Input Supply		415 VAC, 3 Phase, 4 wire (+15% , -15%)
Input Frequency		50Hz ± 6%
BATTERY		
Battery Voltage		120VDC
Grid charger type		Bi-Directional
Charging current from grid		15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (upto inverter kVA Capacity)
Battery Type		Lead Acid/SMF
INVERTER		
Switching Element		IGBT
Output wave form		Pure Sine Wave
Output Nominal Voltage		415VAC ±2%, 3Ph
Output Fequency		50Hz ±1%
Load Power Factor		0.6 lag to 1 (within VA and kW rating)
Inverter Peak Efficiency		90%
Vth with 100% linear load		Mains mode: Same as Grid inverter mode <3%
Galvanic isolation		Inbuilt isolation transformation inverter output
Overload conditions		110% for 60 sec / 125% for 10 sec/150% for 1 sec
PROTECTION		
Protection		Input Under and Over voltage, Input Under and Over Fequency, Output Overload, Output short circuit, Output over and Under Voltage
		Over Temperature Array Reverse Polarity, Battery Over and Under voltage
DISPLAY PARAMETER, LED INDICATION AND ALARM		
Display Parameter		Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)
LED Indication		Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging
Alarm		Audible alarm for fault conditions and warnings
CONFIGURATION		
Modes		2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)
Parameter Setting		All main Parameters can be set through LCD Display
Bypass		Manual bypass switch available for maintenance and service
ENCLOSURE		
Degree of protection		IP 20
Cooling		Forced Air Cooling
Color		RAL 5013 Cobalt Blue
Dimensions (L*W*H)mm		710 x 300 x 790
Netweight (Approx in Kg's)		130
ENVIRONMENT		
Temperature Operating		0-40° C
Max. Relative humidity@25° (non condensing)		Upto 95%
Max. Altitude above sea level without de-rating		upto 1000 mtr

Stock Availability: 8 to 10 weeks from date of Purchase Order
Technical specifications are subject to change without prior notice

System Rating (kVA/kW)	15kVA/12kW	20kVA/16kW
Open circuit voltage	400V	500V
Maximum PV Power	15kW	20kW
Charge Controller	MPPT Charge Controller	
MPPT Voltage Range	200 - 380	300 - 480
Switching Element	IGBT	
Type of Charger	MPPT	
Charger Efficiency	>95%	
GRID		
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)	
Input Frequency	50Hz ± 6%	
BATTERY		
Battery Voltage	180VDC	240VDC
Grid charger type	Bi-Directional	
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (upto inverter kVA Capacity)	
Battery Type	Lead Acid/SMF	
INVERTER		
Switching Element	IGBT	
Output wave form	Pure Sine Wave	
Output Nominal Voltage	415VAC ±2%, 3Ph	
Output Fequency	50Hz ±1%	
Load Power Factor	0.6 lag to 1 (within VA and kW rating)	
Inverter Peak Efficiency	90%	
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%	
Galvanic isolation	Inbuilt isolation transformation inverter output	
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec	
PROTECTION		
Protection	Input Under and Over voltage, Input Under and Over Fequency, Output Overload, Output short circuit, Output over and Under Voltage	
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage	
DISPLAY PARAMETER, LED INDICATION AND ALARM		
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)	
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging	
Alarm	Audible alarm for fault conditions and warnings	
CONFIGURATION		
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)	
Parameter Setting	All main Parameters can be set through LCD Display	
Bypass	Manual bypass switch available for maintenance and service	
ENCLOSURE		
Degree of protection	IP 20	
Cooling	Forced Air Cooling	
Color	RAL 5013 Cobalt Blue	
Dimensions (L*W*H)mm	770 x 400 x 880	
Netweight (Approx in Kg's)	154	
ENVIRONMENT		
Temperature Operating	0-40° C	
Max. Relative humidity@25° (non condensing)	Upto 95%	
Max. Altitude above sea level without de-rating	upto 1000 mtr	

Stock Availability: 8 to 10 weeks from date of Purchase Order
Technical specifications are subject to change without prior notice

System Rating (kVA/kW)		25kVA/20kW
Open circuit voltage		500V
Maximum PV Power		25kW
Charge Controller		MPPT Charge Controller
MPPT Voltage Range		300 - 480
Switching Element		IGBT
Type of Charger		MPPT
Charger Efficiency		>95%
GRID		
Input Supply		415 VAC, 3 Phase, 4 wire (+15% , -15%)
Input Frequency		50Hz $\pm$ 6%
BATTERY		
Battery Voltage		240VDC
Grid charger type		Bi-Directional
Charging current from grid		15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (upto inverter kVA Capacity)
Battery Type		Lead Acid/SMF
INVERTER		
Switching Element		IGBT
Output wave form		Pure Sine Wave
Output Nominal Voltage		415VAC $\pm$ 2%, 3Ph
Output Frequency		50Hz $\pm$ 1%
Load Power Factor		0.6 lag to 1 (within VA and kW rating)
Inverter Peak Efficiency		90%
Vth with 100% linear load		Mains mode: Same as Grid inverter mode <3%
Galvanic isolation		Inbuilt isolation transformation inverter output
Overload conditions		110% for 60 sec / 125% for 10 sec/150% for 1 sec
PROTECTION		
Protection		Input Under and Over voltage, Input Under and Over Frequency, Output Overload, Output short circuit, Output over and Under Voltage
		Over Temperature Array Reverse Polarity, Battery Over and Under voltage
DISPLAY PARAMETER, LED INDICATION AND ALARM		
Display Parameter		Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)
LED Indication		Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging
Alarm		Audible alarm for fault conditions and warnings
CONFIGURATION		
Modes		2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)
Parameter Setting		All main Parameters can be set through LCD Display
Bypass		Manual bypass switch available for maintenance and service
ENCLOSURE		
Degree of protection		IP 20
Cooling		Forced Air Cooling
Color		RAL 5013 Cobalt Blue
Dimensions (L*W*H)mm		900 x 400 x 880
Netweight (Approx in Kg's)		180
ENVIRONMENT		
Temperature Operating		0-40° C
Max. Relative humidity@25° (non condensing)		Upto 95%
Max. Altitude above sea level without de-rating		upto 1000 mtr

Stock Availability: 8 to 10 weeks from date of Purchase Order
Technical specifications are subject to change without prior notice

System Rating (kVA/kW)	30kVA/24kW	40kVA/32kW	50kVA/40kW
Open circuit voltage	750V		
Maximum PV Power	30kW	40kW	50kW
Charge Controller	MPPT Charge Controller		
MPPT Voltage Range	540 - 730	540 - 730	540 - 730
Switching Element	IGBT		
Type of Charger	MPPT		
Charger Efficiency	>95%		
GRID			
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)		
Input Frequency	50Hz ± 6%		
BATTERY			
Battery Voltage	360VDC		
Grid charger type	Bi-Directional		
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (upto inverter kVA Capacity)		
Battery Type	Lead Acid/SMF		
INVERTER			
Switching Element	IGBT		
Output wave form	Pure Sine Wave		
Output Nominal Voltage	415VAC ±2%, 3Ph		
Output Fequency	50Hz ±1%		
Load Power Factor	0.6 lag to 1 (within VA and kW rating)		
Inverter Peak Efficiency	90%		
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%		
Galvanic isolation	Inbuilt isolation transformation inverter output		
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec		
PROTECTION			
Protection	Input Under and Over voltage, Input Under and Over Fequency, Output Overload, Output short circuit, Output over and Under Voltage		
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage		
DISPLAY PARAMETER, LED INDICATION AND ALARM			
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)		
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging		
Alarm	Audible alarm for fault conditions and warnings		
CONFIGURATION			
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)		
Parameter Setting	All main Parameters can be set through LCD Display		
Bypass	Manual bypass switch available for maintenance and service		
ENCLOSURE			
Degree of protection	IP 20		
Cooling	Forced Air Cooling		
Color	RAL 5013 Cobalt Blue		
Dimensions (L*W*H)mm	925 x 535 x 1190		
Netweight (Approx in Kg's)	250	310	325
ENVIRONMENT			
Temperature Operating	0-40° C		
Max. Relative humidity@25° (non condensing)	Upto 95%		
Max. Altitude above sea level without de-rating	upto 1000 mtr		

Stock Availability: 8 to 10 weeks from date of Purchase Order
 Technical specifications are subject to change without prior notice

System Rating (kVA/kW)	105KVA/84kW	120kVA/96kW	150kVA/120kW	200kVA/160kW
Open circuit voltage	750V			1150V
Maximum PV Power	105kW	120kW	150kW	200kW
Charge Controller	MPPT Charge Controller			
MPPT Voltage Range	700 - 830	700 - 830	700 - 830	950 - 1120
Switching Element	IGBT			
Type of Charger	MPPT			
Charger Efficiency	>95%			
GRID				
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)			
Input Frequency	50Hz ± 6%			
BATTERY				
Battery Voltage	480VDC			
Grid charger type	Bi-Directional			
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (upto inverter kVA Capacity)			
Battery Type	Lead Acid/SMF			
INVERTER				
Switching Element	IGBT			
Output wave form	Pure Sine Wave			
Output Nominal Voltage	415VAC ±2%, 3Ph			
Output Fequency	50Hz ±1%			
Load Power Factor	0.6 lag to 1 (within VA and kW rating)			
Inverter Peak Efficiency	90%			
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%			
Galvanic isolation	Inbuilt isolation transformation inverter output			
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec			
PROTECTION				
Protection	Input Under and Over voltage, Input Under and Over Fequency, Output Overload, Output short circuit, Output over and Under Voltage			
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage			
DISPLAY PARAMETER, LED INDICATION AND ALARM				
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)			
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging			
Alarm	Audible alarm for fault conditions and warnings			
CONFIGURATION				
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)			
Parameter Setting	All main Parameters can be set through LCD Display			
Bypass	Manual bypass switch available for maintenance and service			
ENCLOSURE				
Degree of protection	IP 20			
Cooling	Forced Air Cooling			
Color	RAL 5013 Cobalt Blue			
Dimensions (L*W*H)mm	1000 x 1000 x 1700			
Netweight (Approx in Kg's)	710	780	840	910
ENVIRONMENT				
Temperature Operating	0-40° C			
Max. Relative humidity@25° (non condensing)	Upto 95%			
Max. Altitude above sea level without de-rating	upto 1000 mtr			

Stock Availability: 8 to 10 weeks from date of Purchase Order
 Technical specifications are subject to change without prior notice

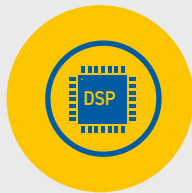
System Rating (kVA/kW)		250kVA/200kW
Open circuit voltage		1150V
Maximum PV Power		250kW
Charge Controller		MPPT Charge Controller
MPPT Voltage Range		950 - 1120
Switching Element		IGBT
Type of Charger		MPPT
Charger Efficiency		>95%
GRID		
Input Supply		415 VAC, 3 Phase, 4 wire (+15% , -15%)
Input Frequency		50Hz $\pm$ 6%
BATTERY		
Battery Voltage		672VDC
Grid charger type		Bi-Directional
Charging current from grid		15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (upto inverter kVA Capacity)
Battery Type		Lead Acid/SMF
INVERTER		
Switching Element		IGBT
Output wave form		Pure Sine Wave
Output Nominal Voltage		415VAC $\pm$ 2%, 3Ph
Output Frequency		50Hz $\pm$ 1%
Load Power Factor		0.6 lag to 1 (within VA and kW rating)
Inverter Peak Efficiency		90%
Vth with 100% linear load		Mains mode: Same as Grid inverter mode <3%
Galvanic isolation		Inbuilt isolation transformation inverter output
Overload conditions		110% for 60 sec / 125% for 10 sec/150% for 1 sec
PROTECTION		
Protection		Input Under and Over voltage, Input Under and Over Frequency, Output Overload, Output short circuit, Output over and Under Voltage
		Over Temperature Array Reverse Polarity, Battery Over and Under voltage
DISPLAY PARAMETER, LED INDICATION AND ALARM		
Display Parameter		Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)
LED Indication		Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging
Alarm		Audible alarm for fault conditions and warnings
CONFIGURATION		
Modes		2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)
Parameter Setting		All main Parameters can be set through LCD Display
Bypass		Manual bypass switch available for maintenance and service
ENCLOSURE		
Degree of protection		IP 20
Cooling		Forced Air Cooling
Color		RAL 5013 Cobalt Blue
Dimensions (L*W*H)mm		1260 x 1104 x 1850
Netweight (Approx in Kg's)		1200
ENVIRONMENT		
Temperature Operating		0-40° C
Max. Relative humidity@25° (non condensing)		Upto 95%
Max. Altitude above sea level without de-rating		upto 1000 mtr

Stock Availability: 8 to 10 weeks from date of Purchase Order
Technical specifications are subject to change without prior notice

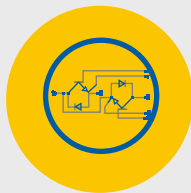
3 PHASE SOLAR HYBRID TX MAX

Savings & Backup All Together

Luminous Hybrid Tx MAX Three Phase Inverter is designed with advanced technology. It adopts high-performance digital control technique (DSP), with perfect protection, advance energy management function, reasonable human machine interface and a series of precision design that meets all high reliability requirements experience a power that integrates reliability, safety & maintenance characteristics of a new generation.



Advanced
DSP Control



IGBT Based
Rectifier



3 Years
Warranty



Export excess PV power to grid
Export excess energy to grid.



Inbuilt zero export device
Use this function till the time net meter not installed.



LI BESS (Luminous Make) compatible
Fully compatible with Luminous Li-based energy storage systems.



Wi-fi dongle inbox
Supplied with a Wi-Fi dongle for wireless monitoring with app.



***Without battery operational**
No battery required for use (need to connect 1kVA UPS or single battery-operated inverter for operational of control circuit).

Technical Specifications

Rating(kVA)	10kVA/120V	15kVA/18 0V	20kVA/24 0V	25kVA/24 0V	30kVA/360V
Grid					
Input Wiring	3PH Five Wire (3 PH+ N+ E)				
Input Neutral Requirement	Yes				
Nominal Voltage	330V To 475V FOR 3PH				
Grid Frequency Sync Range	50 Hz (1 6%)				
Unity Power Factor For Grid Charging	> 0.9				
Operating Condition	Continuous				
Self-consumption	Up To 4%				
Charger Peak Efficiency	Upto 85%				
DG Compatibility	YES (Double Of Inverter Capacity)				
Grid Compatibility	Yes Same As Inverter Capacit y				
Input Voltage Distortion Allowed	Less Than 3%				
Grid Charger Capacity	50% of kVA Rating				
Solar					
Charger Type	MPPT				
Max PV Connection In KWp	10	15	20	25	30
Max PV Voltage (VOC)	300V	450V	500V	500V	680V
Max I/P Amps Per Channel (Amps)	83	82	83	10 4	83
No Of MPPT Channel			1		
Panel Reverse Protection	Yes				
Solar Charger conveter Efficiency	Up To 95%				
Battery					
Nominal Battery Voltage (VDC)	120	180	240		360
Battery Buffer Setting	DC Voltage Selectable Through Key Pad				
Grid Charging Current	Settable Through Key Pad				
Temperature Compensated Charging	Yes				
Battery Charging Voltage	Selectable From LCD Display				
Type & No. Of Cells	Lead Acid / VRLA / Ni-cd/ (LithiumIon)				
BMS Compatible	Yes				
Battery Less Feature					
MPPT Voltage Range for Batteryless mode	200-25 0V	300-400V			400-550V
O/P Current Per Phase for Battery less mode	75% of Max O/P current				
External UPS/Inverter Rating	1 KVA with battery				
Output					
Max O/P Current Per Phase	11.6 Amp	17.4 Amp	23.2 Amp	29 Amp	34.8 Amp

Contd...

Rating(kVA)	10kVA/120V	15kVA/18 0V	20kVA/24 0V	25kVA/24 0V	30kVA/360V
Output Voltage (Inverter Mode)	400V AC ± 2%				
Output Frequency (Free Running)	50 Hz 1 1%				
Output Waveform	Pure Sine Wave				
Peak Inverter Efficiency (Full Load)	Upto 90%				
Total Harmonic Distortion	Upto 3% At Linear Load				
Overload Capacity	1 25% For 60 sec, 150% For 5 Sec				
Changeover Time (Full Load)	j5mSec				
DC To AC Galvanic Isolation	In Built Isolation Transformer At Inverter Output				
Anti Islanding Function	In Compliance With IEC 62116				
Auto Bypass Feature	Yes				
Duty	Continuous				
Configuration					
Modes Available	Grid Saving, Battery Backup, Export, Battery Less				
Power Export To Grid	Enable / Disable Option Available				
Power Import From Grid	Enable / Disable Option Available				
Environmental					
Acoustic Noise Level From 1 M	j 65 dB	≤ 68 dB			
Operating Temperature	0 To 45 °C(Dust Free Cooled And Dry Environment)				
Storage Temperature	-10 Deg C To 55 Deg C				
Relative Humidity	Up To 95 % (Non Condensing)				
Altitude	Upto 1000 Meter				
Physical					
Enclosure Protection Grade	IP 20				
Cooling	Forced Air				
Colour	RAL5011				
Cable Entry	Bottom				
Parameters Displayed On LCD					
Mains	Voltage, Current, Frequency, KW, kVA, Import KWh , Export KWh, PF				
Inverter	Voltage, Current, Frequency, kVA, Load%				
Output	Voltage, Frequency				
Solar	Solar Voltage, Solar Current, Power(KW), Solar Energy (KW h)				
Battery	Voltage, Current, SOC				
Protections					
Electrical	Circuit Breaker And Fuse				
Alarm	Alarms Are Available For Fault Condition.				
Input	Input Under Voltage, Input Over Voltage, Under / Over Frequency				
Inverter	Output Under Voltage, Output Over Voltage, Overload, Output Short Circuit, Inverter Over Temperature				
Solar	Solar High/Low, MOV, Reverse PV Panel Protection				
Battery	Battery Low , Battery Over				

Contd...

Rating(kVA)	10kVA/120V	15kVA/18 0V	20kVA/24 0V	25kVA/24 0V	30kVA/360V
Connectivity					
Communication	RS 4 85 or Wi-Fi Dongle				
Protocol	MODBUS RTU				
LCD with Backlight & Tactile Key Pad Interface	Yes				
Standard	BIS IS 16169 : 2014 / IEC 62116 : 2008,IS 16221 (Part 2) : 2015 / IEC 62109-2 : 2011				
Earthing Connection (R ef. Is 3 043)	Earth stud AC/DC separate				
Dimensions (In MM) Tentative Dimension					
kVA Rating	10	15	20	25	30
Width (W)	450	450	450	450	600
Depth (D)	800	800	800	900	10 00
Height (H)	800	900	900	900	13 00
Weight (Kg) APPROX.	17 0	22 0	24 0	25 0	500
Wi-Fi Based Remote Monitoring	Provided				
1. Specifications are subjected to change without noticed.					
2. Not for Life Support & Mission Critical Application.					

Note : Specification may change without prior notice.
Please follow the installation guidelines to avail standard warranty.

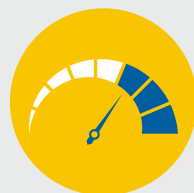
SOLAR NXE PRO

Run Everything Everytime

Solar NXE PRO range from Luminous comes with in-built MPPT technology, that helps in converting 30% more power from solar panels as compared to PWM solar inverters. It is available in 15kVA.



2 Years
Warranty



Max PV Capacity
Utilization



Multicolor
LCD Display



User Settable Saving Modes
SL-1, SL-2, SL-3, SL-4 Modes
UPS and Normal Modes



Max PV Capacity Utilization
Connect Solar Panels upto 16500Wp

6:00

Multicolor LCD Display

A user friendly display communicates important parameters like discharge time, grid availability, selected priority setting etc.

MPPT

Maximum Power Point Tracking

MPPT charge controllers are more efficient compared to PWM charge controllers as they convert 30% more power from solar panels.



Smart Solar Optimization

Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar PCU	Solar Battery	PV Panel Watt	
SOLAR NXE PRO 15KVA	150Ah x 20	590Wp x 27 Nos.	9 (S) 3 (P)

Solar NXE PRO



Technical Specifications

Model Name	SOLAR NXE PRO 15KVA
Capacity (kVA)	15KVA
Nominal Battery Voltage (Vdc)	240V
Output Waveform	Sine Wave
SOLAR PHOTOVOLTAIC INPUT	
Type of Charger	MPPT
Maximum PV power	16500W
Solar Input Voltage range (Voc)	550V
Solar Input Voltage range (Vmp)	440V
No. of MPPT Channels	1
GRID INPUT	
Input Supply Phase	Single Phase
Operating Voltage range	100V-280V
BATTERY	
Battery Charging Current from Solar	Default: 40A (User settable: 5A- 50A)
Battery Charging Current from Grid	12A / 16A
Battery Charging Stages	3
Battery Types Supported	Lead Acid
INVERTER	
Switching Element	IGBT
Control	PWM
Nominal Output Volage (V)	230V+3%
Output Supply Phase	Single Phase
Nominal Frequency	50Hz+1Hz
Nominal Output Current	52.2
Output Voltage Distortion (THD)	< 3%
SYSTEM DATA	
Transfer Time	<40mSec
Protection	Overload,Battery low, Over temperature, Short circuit, Mains MCB Trip, PV reverse
Display Parameters	AC Mains voltage, O/P Load in %, Battery Input voltage,Battery Charging/ Discharging current (Bar Graph), Solar KWH used, Solar Status, Warning or protection status
Indications	On/Off Switch, UPS/INV mode enable /disable Charging current LC/HC, Power saving
ENVIRONMENT	
IP Protection Level	IP20
Operating Temperature	- 10 TO 45 °C
Storage Temperature	- 10 TO 60 °C
Cooling	Forced cooling by fan
Max. Relative Humidity @ 25 °C	5% - 95% Non-Condense
GENERAL	
Dimension (LxWxH) [mm]	642*276*509
Net Weight (Kg)	99.9 Kg

Technical specifications are subject to change without prior notice.

SOLARVERTER PRO PCU

Superior Performance

Solarverter PRO range from Luminous allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, Solarverter PRO is available from 2kVA to 10.1kVA.



3 Years
Warranty



Smart Solar
optimization



User Controller
Settings



MPPT

Maximum Power Point Tracking

MPPT charge controllers are more efficient compared to PWM charge controllers as they convert 30% more power from solar panels.



User-friendly LCD Display

A user friendly display communicates important parameters like discharge time, grid availability, selected priority setting etc.



Guaranteed Safety

Comprehensive protection features include short-circuit, reverse polarity, battery over-charge etc.



Remote Monitoring

Multiple modes of connectivity for remote monitoring enables keeping track of solar generation and proactive maintenance



Smart Solar Optimization

Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.

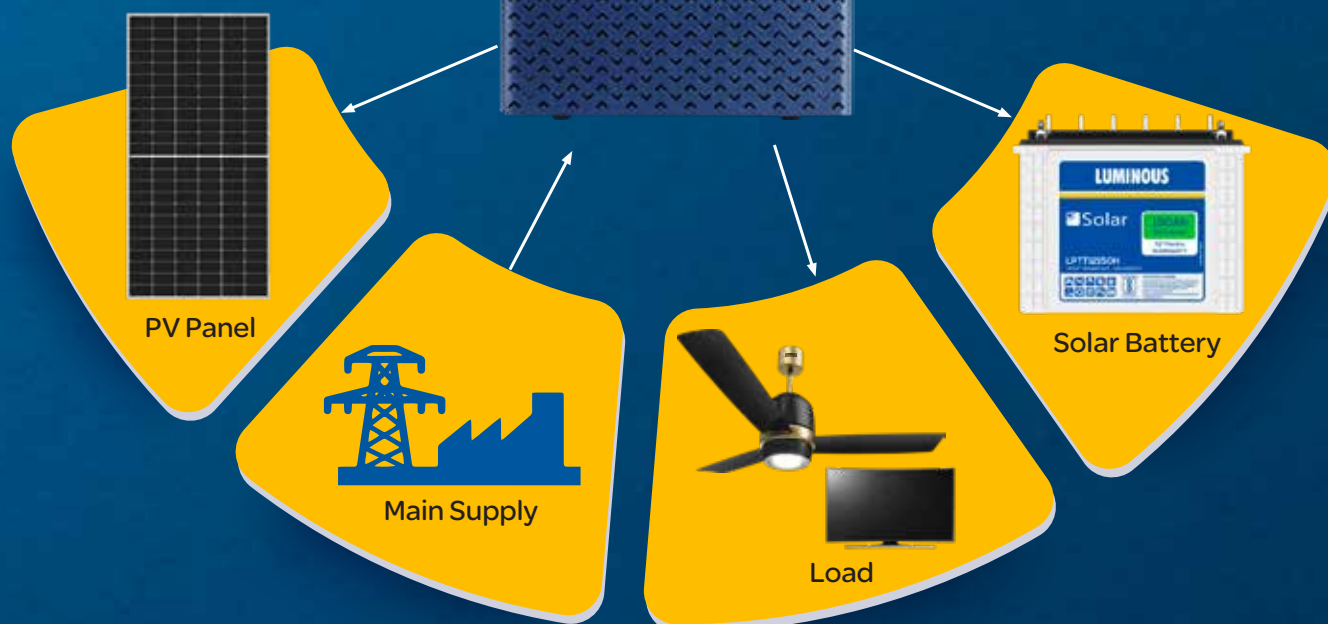
Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar PCU	Solar Battery	PV Panel Watt	
SOLARVERTER PRO 2KVA _{eco}	150Ah x 2	590Wp*4 Nos.	2(S) 2(P)
SOLARVERTER PRO 2KVA _{eco}	150Ah x 2	635Wp*4 Nos.	2(S) 2(P)
SOLARVERTER PRO 3KVA _{eco}	150Ah x 3	590Wp*6 Nos.	2(S) 3(P)
SOLARVERTER PRO 3KVA _{eco}	150Ah x 3	635Wp*4 Nos.	2(S) 2(P)
SOLARVERTER PRO 3.5KVA	150Ah x 4	590Wp*6 Nos.	3(S) 2(P)
SOLARVERTER PRO 5KVA _{eco}	150Ah x 4	590Wp*9 Nos.	3(S) 3(P)
SOLARVERTER PRO 5KVA _{eco}	150Ah x 4	635Wp*8 Nos.	4(S) 2(P)
SOLARVERTER PRO 6KVA	150Ah x 8	590Wp*12 Nos.	4(S) 3(P)
SOLARVERTER PRO 7.5KVA _{eco}	150Ah x 8	590Wp*14 Nos.	7(S) 2(P)
SOLARVERTER PRO 7.5KVA _{eco}	150Ah x 8	635Wp*12 Nos.	6(S) 2(P)
SOLARVERTER PRO 10.1KVA _{eco}	150Ah x 10	590Wp*18 Nos.	6(S) 3(P)
SOLARVERTER PRO 10.1KVA _{eco}	150Ah x 10	635Wp*16Nos.	8(S) 2(P)

Solarverter PRO PCU



*Wi-Fi Dongle to be purchased separately (optional)



Technical Specifications

Model Name	SOLARVERTER PRO 2KVA eco	SOLARVERTER PRO 3KVA eco	SOLARVERTER PRO 3.5KVA
Capacity (kVA)	2kVA	3kVA	3.5kVA
Nominal Battery Voltage (Vdc)	24V	36V	48V
Output Waveform	Sinewave		
SOLAR PHOTOVOLTAIC INPUT			
Type of Charger	MPPT		
Maximum PV power	2000W	3000W	3500W
Solar Input Voltage (Voc)	55V-107V	75V-150V	130V-220V
Solar Input Voltage range (Vmp)	45V-85V	60V-120V	110V-180V
No. of MPPT Channels	1		
GRID INPUT			
Input Supply Phase	Single Phase		
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac		
Mains mode (Unregulated UPS Mode)	110V-280Vac		140V-280V
BATTERY			
No. of Batteries	2	3	4
Battery Charging Current from Solar	30A		
Battery Charging Current from Grid	0A, 14A, 17A, 20A		0A, 4A-20A (user settable)
Charging Stages	Boost, Absorption, Float		
Type of Battery	Tubular/SMF/Flat		
INVERTER			
Switching Element	MOSFET		
Control	16 Bit DSP controlled		32 Bit DSP Controlled
Nominal Output Voltage (V)	230V ± 5%		230V ± 5%
Output Supply Phase	1 Phase 2 Wire		
Nominal Frequency	50 Hz		
Nominal Output Current	7.5A	11A	12.5A+/-1A
Output Voltage Distortion(THD)	<= 3%		<= 5%
SYSTEM DATA			
Transfer Time	<20 mS		
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery		
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode		
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode		
ENVIRONMENT			
IP Protection Level	IP20		
Operating Temperature	0-45 °C		
Storage Temperature	0-50°C		
Cooling	Forced Air Cooling		
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)		
GENERAL			
Dimension (L*W*H) [mm]	300x432x284	300x432x429	590x433x523
Net Weight (kg)	27.7kg	31.5kg	47.5kg

Technical specifications are subject to change without prior notice.

Technical Specifications

Model Name	SOLARVERTER PRO 5KVA eco	SOLARVERTER PRO 6KVA
Capacity (kVA)	5kVA	6kVA
Nominal Battery Voltage (Vdc)	48V	96V
Output Waveform	Sinewave	
SOLAR PHOTOVOLTAIC INPUT		
Type of Charger	MPPT	
Maximum PV power	5000W	6000W
Solar Input Voltage (Voc)	130V-220V	180V-250V
Solar Input Voltage range (Vmp)	110V-180V	150V-200V
No. of MPPT Channels	1	
GRID INPUT		
Input Supply Phase	Single Phase	
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac	
Mains mode (Unregulated UPS Mode)	140V-280V	
BATTERY		
No. of Batteries	4	8
Battery Charging Current from Solar	30A	50A
Battery Charging Current from Grid	0A, 4A-20A (user settable)	0A, 14A, 17A, 20A
Charging Stages	Boost, Absorption, Float	
Type of Battery	Tubular/SMF/Flat	
INVERTER		
Switching Element	MOSFET	IGBT
Control	32 Bit DSP Controlled	
Nominal Output Voltage (V)	230V ± 5%	
Output Supply Phase	1 Phase 2 Wire	
Nominal Frequency	50 Hz	
Nominal Output Current	17.5A+/-1A	20A+/-1A
Output Voltage Distortion(THD)	<= 5%	
SYSTEM DATA		
Transfer Time	<20 mS	
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery	
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
ENVIRONMENT		
IP Protection Level	IP20	
Operating Temperature	0-45 °C	
Storage Temperature	0-50°C	
Cooling	Forced Air Cooling	
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)	
GENERAL		
Dimension (L*W*H) [mm]	511x300x484	620x300x487
Net Weight (kg)	54 kg	58 kg

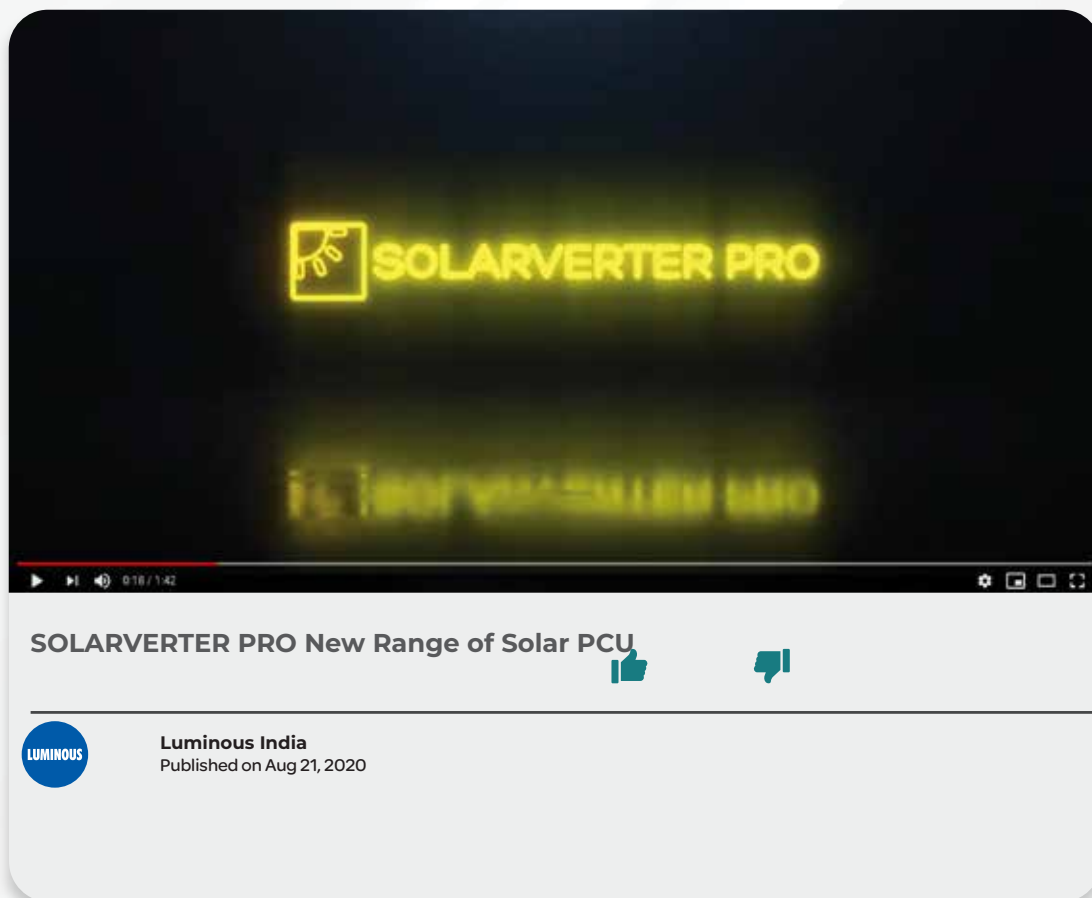
Technical specifications are subject to change without prior notice.

Technical Specifications

Model Name	SOLARVERTER PRO 7.5KVA eco	SOLARVERTER PRO 10.1KVA eco
Capacity (kVA)	7.5kVA	10.1kVA
Nominal Battery Voltage (Vdc)	96V	120V
Output Waveform	Sinewave	
SOLAR PHOTOVOLTAIC INPUT		
Type of Charger	MPPT	
Maximum PV power	7500W	10000W
Solar Input Voltage (Voc)	200V-400V	200V-400V
Solar Input Voltage range (Vmp)	150V-320V	150V-320V
No. of MPPT Channels	1	
GRID INPUT		
Input Supply Phase	Single Phase	
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac	
Mains mode (Unregulated UPS Mode)	140V-280V	
BATTERY		
No. of Batteries	8	10
Battery Charging Current from Solar	30A	
Battery Charging Current from Grid	0A, 4A-20A (user settable)	
Charging Stages	Boost, Absorption, Float	
Type of Battery	Tubular/SMF/Flat	
INVERTER		
Switching Element	IGBT	
Control	32 Bit DSP Controlled	
Nominal Output Voltage (V)	230V ± 5%	
Output Supply Phase	1 Phase 2 Wire	
Nominal Frequency	50 Hz	
Nominal Output Current	26A+/-1A	34A+/-1A
Output Voltage Distortion(THD)	<= 5%	
SYSTEM DATA		
Transfer Time	<20 mS	
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery	
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
ENVIRONMENT		
IP Protection Level	IP20	
Operating Temperature	0-45 °C	
Storage Temperature	0-50°C	
Cooling	Forced Air Cooling	
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)	
GENERAL		
Dimension (L*W*H) [mm]	690x400x500	740x400x580
Net Weight (kg)	78 kg	101 kg

Technical specifications are subject to change without prior notice.

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SOLARVERTER PCU

Superior Performance

Solarverter range from Luminous allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions.



3 Years
Warranty



Smart Solar
optimization



User Controller
Settings



Customisable Saving Modes
Solar, Solar+Grid, Grid+Solar



Max Capacity Utilization
Connect Solar Panels equivalent to
Solar
Inverter's VA ratings



User-friendly LCD Display
A user friendly display communicates important parameters like discharge time, grid availability, selected priority setting etc.



BIS Certified
BIS Certified BIS certified
as per IS/IEC standards



Smart Solar Optimization
Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar PCU	Solar Battery	PV Panel Watt	
SOLARVERTER 3KVA	150Ah x 4	590Wp x 6 Nos.	2 (S) 3 (P)
SOLARVERTER 3KVA	150Ah x 4	635Wp x 4 Nos.	2 (S) 2 (P)
SOLARVERTER 5KVA	150Ah x 4	590Wp x 10 Nos.	2 (S) 5 (P)
SOLARVERTER 5KVA	150Ah x 4	635Wp x 8 Nos.	2 (S) 4 (P)

Solarverter PCU



Technical Specifications

Model Name	SOLARVERTER 3KVA	SOLARVERTER 5KVA
Capacity (kVA)	3kVA	5kVA
Nominal Battery Voltage (Vdc)	48V	48V
Output Waveform	Sine Wave	
SOLAR PHOTOVOLTAIC INPUT		
Type of Charger	PWM	
Maximum PV power	3000W	5000W
Solar Input Voltage range (Voc)	72V-120V	65V-120V
Charge Controller Rating	45A	70A
GRID INPUT	Sine Wave	
Input Supply Phases	Single Phase	
Operating Voltage range	140V-290V	
Nominal Grid Current (import)	9	18
BATTERY		
Battery Charging Current from Solar	30A	
Battery Charging Current from Mains	0A,15A,20A	
Battery Charging Stages	Boost, Absorption, Float	
Nominal Grid Current (import)	Tubular/SMF/Flat Plate	
UPS		
Switching Element	MOSFET	
Control	32 Bit DSP controlled	
Nominal Output Voltage (V)	230V ± 5%	
Output Waveform	Pure Sine Wave	
Nominal Frequency	50 Hz	
Nominal Output Current	11A	17A
Output Voltage Distortion(THD)	< 3%	
Overload at nominal output voltage	>100% for 12 Secs 5 times retry, 200% for 5 Secs	
SYSTEM DATA		
Transfer Time	<20 mS	
Protection	Reverse Polarity; Surge Protection; Over Voltage; Current Limit; Over/Under Frequency; Short Circuit; Over Temperature	
Display Parameters	Battery Side: Battery Charging/Discharging Status PV Side: Current, Power Grid Side: Voltage, Current Load Side: Load in %	
Indications	System Power On, Inverter ON(Load On Inverter), Solar Available/Solar Charging, Load On Grid/Grid Charging, Battery Under Voltage, System Trip/Fail	
ENVIRONMENT		
IP Protection Level	IP-20	
Operating Temperature	0-45 °C	
Cooling	Forced Air Cooling	
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)	
Max. Altitude above sea level without de-rating (m)	1000 m	
GENERAL		
Dimension (WxDxH) [mm]	300 x 352 x 429	300 x 417 x 415
Net Weight (Kg)	31.5kg	38kg

Technical specifications are subject to change without prior notice.

For more information



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Videos & more product information.

NXP PRO 3500

Superior Performance

NXP PRO 3500 from Luminous allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, NXP PRO 3500 is available in 3kVA.



3 Years
Warranty



Pure Sine
Wave Output



1.5 Hp
submersible pump



Customisable Saving Modes
Solar, Solar+Grid, Grid+Solar

MPPT

Maximum Power Point Tracking
MPPT charge controllers are more efficient compared to PWM charge controllers as they convert 30% more power from solar panels.



User-friendly LCD Display

A user friendly display communicates important parameters like discharge time, grid availability, selected priority setting etc.



BIS Certified

BIS Certified BIS certified as per IS/IEC standards



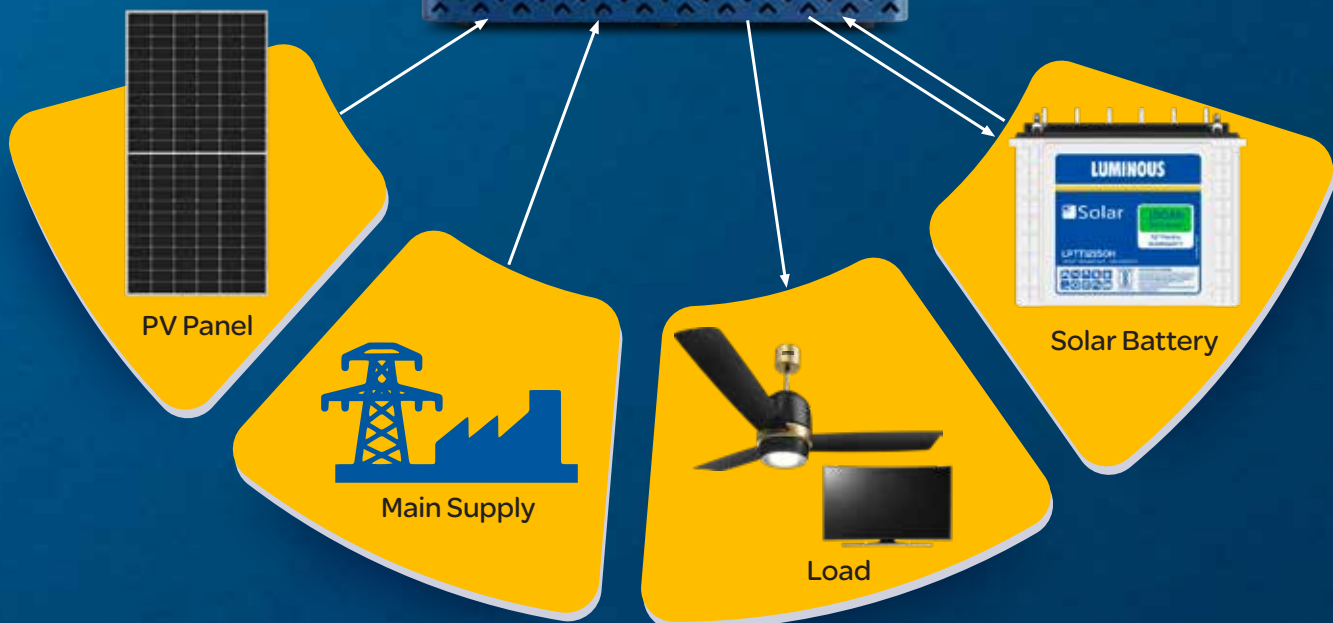
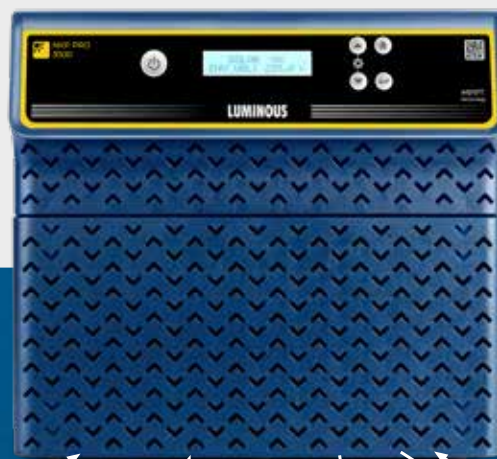
Smart Solar Optimization

Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar PCU	Solar Battery	PV Panel Watt	
NXP PRO 3500	150Ah x 2	590Wp x 4 Nos.	2(S) 2(P)
NXP PRO 3500	150Ah x 2	635Wp x 4 Nos.	2(S) 2(P)

NXP PRO 3500



Technical Specifications

Model Name	NXP PRO 3500	
Nominal Battery Voltage (Vdc)	24V	
Capacity (VA)	3000VA	
Output Waveform	Sine Wave	
SOLAR PHOTOVOLTAIC INPUT		
Charge Controller Type	MPPT	
Charge Controller Rating	50A	
Maximum PV Power	2000Wp	
Input Voltage range (Voc)	55V - 107V	
GRID INPUT		
Operating Voltage Range	90V-290V	
GRID OUTPUT		
No Load Output	230V +/- 10V	
Output frequency battery mode	50 Hz +/- 0.5Hz	
Inverter Efficiency	>80%	
USER SELECTABLE SWITCHES		
Mode Selections	Solar/Solar+Grid/Grid+Solar	
Battery Type Selections	Tubular/Flat Plate/SMF	
MAINS CHARGING CURRENT		
Solar Mode	0A*	
Solar + Grid Mode	10A±2A	
Grid + Solar Mode	15A±2A	
BATTERY		
No. of Batteries	2	
Battery Charging Current	0A,10A,15A	
Type of Battery Supported	Tubular/Flat Plate/SMF	
PROTECTIONS		
Overload	>100%	
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown	
Indications	Mains Available, Solar Charging, Grid Charging, Power Saving, System On, Low Battery, Overload	
DISPLAY INDICATIONS	LED INDICATIONS	LCD DISPLAY <

Technical specifications are subject to change without prior notice.

NXP 3500

Superior Performance

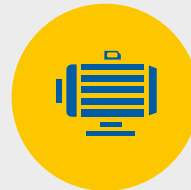
NXP 3500 from Luminous allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, NXP 3500 is available in 3kVA.



3 Years
Warranty



Pure Sine
Wave Output



1.5HP
submersible pump



Customisable Saving Modes
Solar, Solar+Grid, Grid+Solar



Guaranteed Safety

Comprehensive protection features include short-circuit, reverse polarity, battery over-charge etc.



User-friendly LCD Display

A user friendly display communicates important parameters like discharge time, grid availability, selected priority setting etc.



BIS Certified

BIS Certified BIS certified as per IS/IEC standards



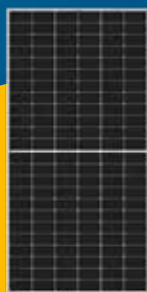
Smart Solar Optimization

Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar PCU	Solar Battery	PV Panel Watt	
NXP 3500 3KVA	150Ah x 2	550Wp x 4 Nos.	4 (P)
NXP 3500 3KVA	150Ah x 2	635Wp x 3 Nos.	3 (P)

NXP 3500



PV Panel



Main Supply



Load



Solar Battery

Technical Specifications

Model Name	NXP 3500		
Nominal Battery Voltage (Vdc)	24V		
Capacity (VA)	3000VA		
Output Waveform	Sine Wave		
SOLAR PHOTOVOLTAIC INPUT			
Charge Controller Type	PWM		
Charge Controller Rating	50A		
Maximum PV Power	2000Wp		
Input Voltage range (Voc)	36V-60V		
GRID INPUT			
Operating Voltage Range	90V-290V		
GRID OUTPUT			
No Load Output	230V +/- 10V		
Output frequency battery mode	50 Hz +/- 0.5Hz		
Inverter Efficiency	>80%		
USER SELECTABLE SWITCHES			
Mode Selections	Solar/Solar+Grid/Grid+Solar		
Battery Type Selections	Tubular/Flat Plate/SMF		
MAINS CHARGING CURRENT			
Solar Mode	0A*		
Solar + Grid Mode	10A±2A		
Grid + Solar Mode	15A±2A		
BATTERY			
No. of Batteries	2		
Battery Charging Current	0A,10A,15A		
Type of Battery Supported	Tubular/Flat Plate/SMF		
PROTECTIONS			
Overload	>100%		
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown		
Indications	Mains Available, Solar Charging, Grid Charging, Power Saving, System On, Low Battery, Overload		
DISPLAY INDICATIONS			
System ON indication	LED INDICATIONS	LCD DISPLAY	
Mains ON indication	System ON LED Steady		
Charging ON indication	ON Mains LED steady		
Low battery pre-alarm indication	ON Mains LED steady + CHG. LED Steady		
Low battery indication	System ON LED Steady + Battery Low LED Blinking		
Battery Charged Indication	Battery Low LED Steady		
Overload Indication	ON Mains LED steady + CHG. LED Off		
Short circuit indication in UPS mode	Overload LED Steady		
DC overload indication	Overload LED Blinking/(ON Mains & Overload LED) Blinking		
Thermistor Open/Short Indication	ON Mains LED + Charge LED Blinking		
Output Feedback open/Reverse	ON Mains LED & Overload LED Steady		
Battery Charging Through Solar	ON Mains LED & Overload LED Blinking		
Power Saving Mode	Solar Charging LED Blinking		
Battery Charging Through Solar + Mains	Power Saver Steady + Solar Chg. LED Blinking/Steady		
No Load Shutdown	ON Mains LED+ Charge LED Steady+ Solar Charging LED Blinking		
Solar Over Current	System ON LED Blinking		
GENERAL			
Net Weight (Kg)	24.2 kg		
Gross weight (Kg)	25.7 kg		
Dimensions LxWxH (mm)	300x291x284mm		

Technical specifications are subject to change without prior notice.

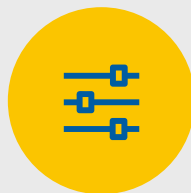
NXG INVERTERS

For Savings & Backup

NXG range is a solar inverter range that intelligently uses grid and solar power. With ability to operate in a wide voltage range, NXG is the ideal starter solar solution for homes.



3 Years
Warranty



Smart Saving
modes



Max Capacity
Utilization



Customisable Saving Modes
Solar, Solar+Grid, Grid+Solar



Max Capacity Utilization
Connect Solar Panels equivalent to
Solar
Inverter's VA ratings



Intelligent Load Sharing
Maximum utilization of solar
power and battery



**Powerful Charging
on Low Voltage**
Charges even at 90V
making it ideal for areas
having low voltage
problem



Informative LCD Display
View important parameters
such as daily solar generation
data, battery status, alerts, etc.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar Inverter	Solar Battery	PV Panel Watt	
NXG 850e	150Ah x 1	170Wp x 3 Nos.	3 (P)
NXG 1150e	150 Ah x 1	170Wp x 5 Nos.	5 (P)
NXG 1450e	150Ah x 1	170Wp x 6 Nos.	6 (P)
NXG 1850e	150 Ah x 2	590 Wp x 3 Nos.	3 (P)
NXG 2350	150Ah x 2	590Wp x 4 Nos.	4 (P)
NXG 2350	150Ah x 2	635Wp x 3 Nos.	3 (P)

NXG Solar Inverter



Technical Specifications

Model Name	NXG 850e	NXG 1150e	NXG 1450e	NXG 1850e	NXG 2350
Nominal Battery Voltage (Vdc)	12V	12V	12V	24V	24V
Capacity (VA)	500VA	850VA	1100VA	1500VA	2000VA
Output Waveform	Sine Wave				
SOLAR PHOTOVOLTAIC INPUT					
Charge Controller Type	PWM				
Charge Controller Rating	30A	50A	60A	40A	55A
Maximum PV Power	500Wp	850Wp	1100Wp	1500Wp	2000Wp
Input Voltage range (Voc)	18V-25V	18V-25V	18V-25V	36V-60V	36V-60V
GRID INPUT					
Operating Voltage Range	90V-290V				
GRID OUTPUT					
No Load Output	230V +/- 10V				
Output frequency battery mode	50 Hz +/- 0.5Hz				
Inverter Efficiency	>80%				
USER SELECTABLE SWITCHES					
Mode Selections	Solar/Solar+Grid/Grid+Solar				
Battery Type Selections	Tubular/Flat Plate/SMF				
MAINS CHARGING CURRENT					
Solar Mode	0A*				
Solar + Grid Mode	10A±2A		15A±2A		
Grid + Solar Mode	15A±2A		20A±2A		
BATTERY					
No. of Batteries	1			2	
Battery Charging Current	0A,10A,15A		0A,15A,20A		
Type of Battery Supported	Tubular/Flat Plate/SMF				
PROTECTIONS					
Overload	>105%				
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown				
Indications	Mains Available, Solar Charging, Grid Charging, Power Saving, System On, Low Battery, Overload				
DISPLAY INDICATIONS	LED INDICATIONS			LCD DISPLAY	
System ON indication	System ON LED Steady			Mains Available, Power Saving, Solar Current, Solar Power, System On, Grid Charging, Low Battery, Overload, No Load Shutdown	
Mains ON indication	ON Mains LED steady				
Charging ON indication	ON Mains LED steady + CHG. LED Steady				
Low battery pre-alarm indication	System ON LED Steady + Battery Low LED Blinking				
Low battery indication	Battery Low LED Steady				
Battery Charged Indication	ON Mains LED steady + CHG. LED Off				
Overload Indication	Overload LED Steady				
Short circuit indication in UPS mode	Overload LED Blinking/(ON Mains & Overload LED) Blinking				
DC overload indication	ON Mains LED + Charge LED Blinking				
Thermistor Open/Short Indication	ON Mains LED & Overload LED Steady				
Output Feedback open/Reverse	ON Mains LED & Overload LED Blinking				
Battery Charging Through Solar	Solar Charging LED Blinking				
Power Saving Mode	Power Saver Steady + Solar Chg. LED Blinking/Steady				
Battery Charging Through Solar + Mains	ON Mains LED + Charge LED Steady + Solar Charging LED Blinking				
No Load Shutdown	System ON LED Blinking				
Solar Over Current	Solar Charging LED Blink Faster				
GENERAL					
Net Weight (Kg)	7.5 kg	10.2 kg	12.8 kg	14.6 kg	18.5 kg
Gross weight (Kg)	8.2 kg	11.1kg	14.2 kg	16.0 kg	20 kg
Dimensions LxWxH (mm)	320x252x130mm	320x302x130 mm	320x320x150mm		320x275x150 mm

Technical specifications are subject to change without prior notice.

[For more information](#)

INDIA'S MOST DEPENDABLE RANGE OF
SOLAR INVERTERS

Luminous NXG Inverters | A new world of Solar Technology
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Published on 3 Mar 2022

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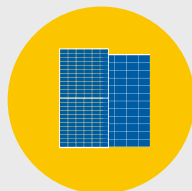
NXG PRO INVERTERS

With Proven MPPT Technology

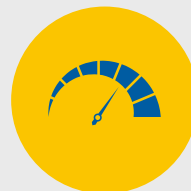
NXG PRO is an intelligent solar inverter which comes with in-built MPPT technology helping in converting 30% more power from solar panels as compared to PWM charge controllers.



3 Years
Warranty



Compatible with
both 12V & 24V
Solar Panels



Max Capacity
Utilization



Customisable Saving Modes
Solar, Solar+Grid, Grid+Solar



Max Capacity Utilization
Connect Solar Panels equivalent to
Solar
Inverter's VA ratings



**Compatible With Both
12V & 24V Solar Panels**
Gives you the flexibility to
connect either 12V or 24V
solar panels as per your need



**Powerful Charging
on Low Voltage**
Charges even at 90V
making it ideal for areas
having low voltage
problem



Informative LCD Display
View important parameters
such as daily solar generation
data, battery status, alerts, etc.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar Inverter	Solar Battery	PV Panel Watt	
NXG PRO 1KVA/12V	150Ah x 1	590Wp x 2 Nos.	2(P)
NXG PRO 1KVA/12V	150Ah x 1	635Wp x 2 Nos.	2(P)
NXG PRO 1KVA/24V	150 Ah x 2	590Wp x 2 Nos.	2 (P)
NXG PRO 1KVA/24V	150 Ah x 2	635Wp x 2 Nos.	2 (P)

NXG Pro Solar Inverter



Technical Specifications

Model Name	NXG PRO 1KVA/12V		NXG PRO 1KVA/24V	
Nominal Battery Voltage (Vdc)	12V		24V	
Capacity (kVA)	1 kVA			
Output Waveform	Pure Sine Wave			
SOLAR PHOTOVOLTAIC INPUT				
Charge Controller Type	MPPT			
Maximum PV power	1000Wp			
Input Voltage range (Voc)	35V-55V			
GRID INPUT				
Operating Voltage Range	90V-290V			
GRID OUTPUT				
No Load Output	230V +/- 10V			
Output frequency battery mode	50 Hz +/- 0.5Hz			
Inverter Efficiency	>80%			
USER SELECTABLE FROM FRONT SWITCH				
Mode Selections	Solar/Solar+Grid/Grid+Solar			
Battery Type Selections	Tubular/SMF/Flat			
No Load Shutdown	Enable/Disable			
MAINS CHARGING CURRENT				
Solar Mode	0A*			
Solar + Grid Mode	15A±2A			
Grid + Solar Mode	20A±2A			
BATTERY				
No. of Batteries	1		2	
Battery Charging Current from Solar	30A±2A			
Battery Charging Current from Grid	0A/15A/20A			
Type of Battery Supported	Tubular/SMF/Flat			
PROTECTIONS				
Overload	>102%			
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown			
Alarms	Battery low pre-alarm, Battery low, Short-circuit, Overload, Faults			
LCD DISPLAY				
LCD Display Messages	Mains Available, Power Saving, Solar Current, Solar Voltage, Solar Power, System On, Grid Charging, Low Battery, Overload, No Load Shutdown			
ENVIRONMENT				
Ambient operating temperature	0-45°C			
Storage Temperature	0-50°C			
Humidity	Upto 95%(Non-Condensed)			
Cooling system	Forced Cooling			
STANDARD COMPLIANCE				
Certifications	BIS certified as per IS/IEC standards			
GENERAL				
Net weight (Kg)	14.1 kg			
Gross weight (Kg)	15.5 kg			
Dimensions LxWxH (mm)	356 X 320 X 138 mm			

Technical specifications are subject to change without prior notice.

For more information



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NXG PRO 1KVA/12V

NXG PRO 1KVA/24V

NXG PRO MEANS MORE

SOLAR

0:23 / 1:36

SHARE

New Solar NXG PRO Inverter Series: Thrive for MORE
19,819 views

LUMINOUS

Luminous India
Published on 19 May 2022

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Presenting Luminous Solar NXG PRO Inverter Series, with 30% more efficiency, more solar generation and can be easily connected with new generation Solar Panels. This more capable & more dependable...

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Videos & more product information.

WI-FI DONGLE

Seamless Connectivity

Makes your solar inverter smart with connectivity option, assisting in viewing and tracking solar generation, battery backup, charging time, fault indications, etc.
(Products Supported: GTIs, Solarverter PRO, Solar Hybrid TX)



Real-Time Monitoring

Get fault alerts and live system updates anytime through our in-house ConnectX app.



Plug and Play

Easy to install — just plug it in and start monitoring instantly.



Status Indicators

LED indicators show real-time working status at a glance.



Convenient Debugging

One-touch Reset button lets you send data quickly and simplify troubleshooting.

Scan & install
ConnectX
App



Android
ConnectX
by Luminous



iOS
ConnectX
by Luminous

Technical Specifications

Model Name	Sync-X	S3-Wi-Fi-ST	S4-Wi-Fi-ST
Electrical characteristics			
DC Supply	5V	5V	5V
Current consumption	0.13 Amp	<0.4 Amp	<0.4 Amp
Average power consumption	< 0.65W	≤ 2 W	≤ 2 W
Wi-fi Standard	IEEE 802.11 b/g/n	802.11b/g/n(2.4G)	802.11b/g/n(2.4G)
Bluetooth	Bluetooth 42		
Interface			
Physical	4-Pin circular connector	External 4-Pin Port	USB
Data transfer rate	9600bps		
Communication interface	RS 485, Bluetooth	RS485 (internal communication between inverters- upto 10 inverters)	RS485 (internal communication between inverters- upto 10 inverters)
Environmental			
Operating temperature range	-10 C to + 55C	-30 ~ +65°C	- 30 ~ +65°C
Storage temperature range	-40C to +85C	- 40 ~ +70°C	- 40 ~ +70°C
Relative humidity	0% to 95%	5% - 95%,	5% - 95%,
Circular connector			
Type	4-Pin circular connector	4-Pin circular connector	USB
Protections			
Reverse polarity	Yes	Yes	Yes
ESD protection	Yes	Yes	Yes
IP Rating	IP 65	IP 65	IP 65
Physical			
Net weight (gms)	33.5	85	65
Gross weight (gms)	90.5		
Dimensions with Antenna (L x W x H)mm	142 x 26 x 95 (with recommended right angle antenna direction)	133 x 44 x 44	113 x 50 x 34
Connectivity			
Compatible with	Solarverter Pro, NXI, Hybrid TX	NXI models with 4 pin	NXI models with USB

LED indication	Sync-X
Colour	Indication
LED1 (green)	Power indication
LED 2 (orange)	Wi-fi mode LED
LED 3 (Blue)	Signal strength
LED 4 (White)	Modbus communication

LED indication	S3-Wi-Fi-ST S4-Wi-Fi-ST		
Colour	Indication		
Internet Indicators (NET) - Green	Shows the connection status between the data logger and the server.	Flashing	Trying to connect with server
		ON	Successfully connected
		OFF	Abnormal connection
Inverter COM Indicators (COM) - Yellow	Shows the connection status between data logger and the inverter.	Flashing	Trying to connect with inverter
		ON	Successfully connected
		OFF	Abnormal connection
Power Indicator (PWR)- Red	Shows the power supply status of the data logger.	ON	Data logger is powered up normally
		OFF	Data logger is powered up abnormally

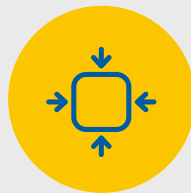
CHARGE CONTROLLER

Easy Upgrade To Solar

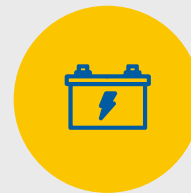
Luminous Charge controllers provide an easy upgrade to solar



1 Year
Warranty



Compact
Design



Automatic Battery
Detection



Automatic Battery Detection

Auto-selects between 12V and 24V battery for easy, error-free setup



Efficient Charging

Protects battery health with advanced 3-stage charging modes.



Battery Status at a Glance

Tri-color LED indicators show battery status instantly.

Charge Controller



Technical Specifications

SPECIFICATIONS	SCC1206e		SCC1210e		SCC1220e		SCC1250	
Technology								
System Rating	06A @ 12V / 24V		10A @ 12V / 24V		20A @ 12V / 24V		50A @ 12V / 24V	
Maximum Solar Panel Wattage	120Wp @ 12V	240Wp @ 24V	200Wp @ 12V	400Wp @ 24V	400Wp @ 12V	800Wp @ 24V	1000Wp @ 12V	2000Wp @ 24V
Maximum Solar Panel Voltage(VoC)	25V @ 12V battery	50V @ 24V battery	25V @ 12V battery	50V @ 24V battery	25V @ 12V battery	50V @ 24V battery	25V @ 12V battery	50V @ 24V battery
Operating Voltage	(7V-14V ±2@12V	(15V-28V) ±2@24V	(7V-14V) ±2@12V	(15V-28V) ±2@24V	(7V-14V) ±2@12V	(15V-28V) ±2@24V	(7V-14V) ±2@12V	(15V-28V) ±2@24V
Boost Voltage: a) For Tubular b) For SMF								
	14.7V±1%	29.4V±1%	14.7V±1%	29.4V±1%	14.7V±1%	29.4V±1%	14.7V±1%	29.4V±1%
	14.4V±1%	28.8V±1%	14.4V±1%	28.8V±1%	14.4V±1%	28.8V±1%	14.4V±1%	28.8V±1%
Float Voltage	13.7V±1%	27.4V±1%	13.7V±1%	27.4V±1%	13.7V±1%	27.4V±1%	13.7V±1%	27.4V±1%
Dimensions (mm)	108 x 38 x 120(L x W x H)		108 x 38 x 120(L x W x H)		108 x 38 x 120(L x W x H)		150 x 48 x 106(L x W x H)	
Wire Size	1.5mm ² Maximum		2.5mm ² Maximum		4mm ² Maximum		10mm ² Maximum	
Net Weight	130 gms		137 gms		142 gms		335.5 gms	

Technical specifications are subject to change without prior notice.

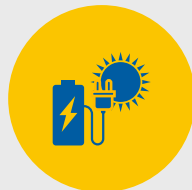
CHARGE CONTROLLER

Easy Upgrade To Solar

Luminous Charge controllers provide an easy upgrade to solar for existing users of DC loads.



1 Year
Warranty



Battery
Overcharge Protection



USB
Port



Protection Against OverCharge and Reverse Current

Charges batteries from solar panels without permitting overcharge and also prevent reverse current flow at night.



Warranty

1 Year warranty



USB Port

Charge your DC devices like Mobile, Tablets etc. directly without using adapter.

Charge Controller



Technical Specifications

Model Name	SCC1206NM	SCC1210NM	SCC1220NM
Charge Controller Type	PWM		
Charge Controller Rating	6A @ 12V	10A @ 12V / 24V	20A @ 12V / 24V
Maximum PV Power	125Wp @ 12V	200Wp @ 12V/400Wp @ 24V	400Wp @ 12V/800Wp @ 24V
Input Voltage range (Voc)	17-25	17-25 @ 12V, 36-50 @ 24V	
Input Voltage range (Vmp)	15-21	15-21 @ 12V, 31-39 @ 24V	
Low voltage disconnect			
A) By state of charge	N.A	Available	
B) Controlled by voltage	Available		
Self consumption	Less than 10mA		
Efficiency:			
A) Charging	98.50%		96%
B) Load	98%		96%
Operating temperature range	0°C to 50°C		
Power connections	30 Ampere Terminal		
Battery type selection	Lead Acid & SMF		
Enclosure	ABS Plastic, IP21		
Dimensions (mm)	40 x 60 x 135 (L x W x H)		
Wire size	2.5 sq. mm	4 sq. mm	6 sq. mm
Net weight	275 gms	300 gms	350 gms

Technical specifications are subject to change without prior notice.

SOLAR BATTERY

Power Of Performance

LUMINOUS
SOLAR

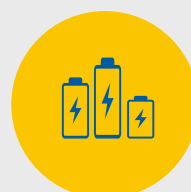
Luminous Solar Batteries are C10 rated deep cycle batteries specially designed for longer back up. Range Available - LMLA Tubular 40Ah to 200 Ah



Upto 6 Years*
Warranty



Tubular Technology
For Longer Life



Rugged
Performance



Very Low Maintenance
Topping up frequency :
Once in 8 to 10 months



**High Temperature
Performance**
Can handle extreme
weather conditions



Long Design Life
Long cycles (1500@80% DOD,
5000 @20% DOD)

Technical Specifications

Model Name	Nominal Voltage	C10 capacity upto 10.5V 27° C	Length 13	Width 13	Height upto float top 13	Dry Weight ±5%	Filled Weight ±5%	Electrolyte Volume 15%
	V	Ah	mm	mm	mm	Kg	Kg	Litre
LPT 1240L	12	40	412	173	267	11	22.5	9.3
LPT 1240H	12	40	412	173	267	12	23.5	9.3
LPT 1280H	12	80	505	220	277	23	37	11.7
LPTT 12100H	12	100	502	191	440	25.5	53	22.2
LPTT 12120H	12	120	502	191	440	27	54.5	22.2
LPTT 12150L	12	150	502	191	440	32.5	58	20.6
LPTT 12150H	12	150	502	191	440	34.5	60	20.6
LPTT 12200L	12	200	502	191	440	40.5	67.5	21.8
LPTT 12200H	12	200	502	191	440	46.5	70.5	19.4

Technical specifications are subject to change without prior notice.

*STC - Standard Test Conditions

*T & C apply



India's **WIDEST RANGE** of Solar Products

Panels

Inverters

Batteries

LUMINOUS

Luminous Power Technologies Pvt. Ltd.

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