LUMINOUS
SOLAR

WIDEST RANGE
OF SOLAR PRODUCTS

PRODUCT CATALOGUE 2025

OUR STORY

Luminous Power Technologies, with 38+ years of experience, is a leading and trusted brand known for innovative Power Back-up Solutions like Inverters, Batteries, and Solar Applications.

We are the No.1 player in the Indian inverter and battery market with turnover exceeding INR 5,000 crores.

Our vast presence includes 8 manufacturing units, 28+ sales offices across India, and operations in 41+ countries. Our 6150+ employees serve 1Lakh+ channel partners and 100 million+ delighted customers.

We excel in after-sales service with a PAN India network of 350+ service centers, doorstep service, 24-hour response time, trained professionals, and 24x7 call support.

38+
Years of Expertise

41+
Countries Globally

8
Manufacturing Unit in India

350+
Service Centers

150+
Patents

6000+
Employees

1+ LAKH
Strong Channel Network

100+ Mn
Delighted Consumers

LUMINOUS SOLAR

Luminous has been at the fore front in rooftop solar installation in India with more than 65,000 installed sites through an expert base of 450+ System Integrators and in-house project team of 50+ people.

Luminous boasts a wide array of cutting-edge SOLAR SOLUTION products covering Solar Panel, Grid-Tie Inverters, PCUs (Off-grid Inverters) and Solar Batteries, BESS, Charge Controller & BOS.

2.2+ GWp
Installed capacity

1+ Lakh
Site survey

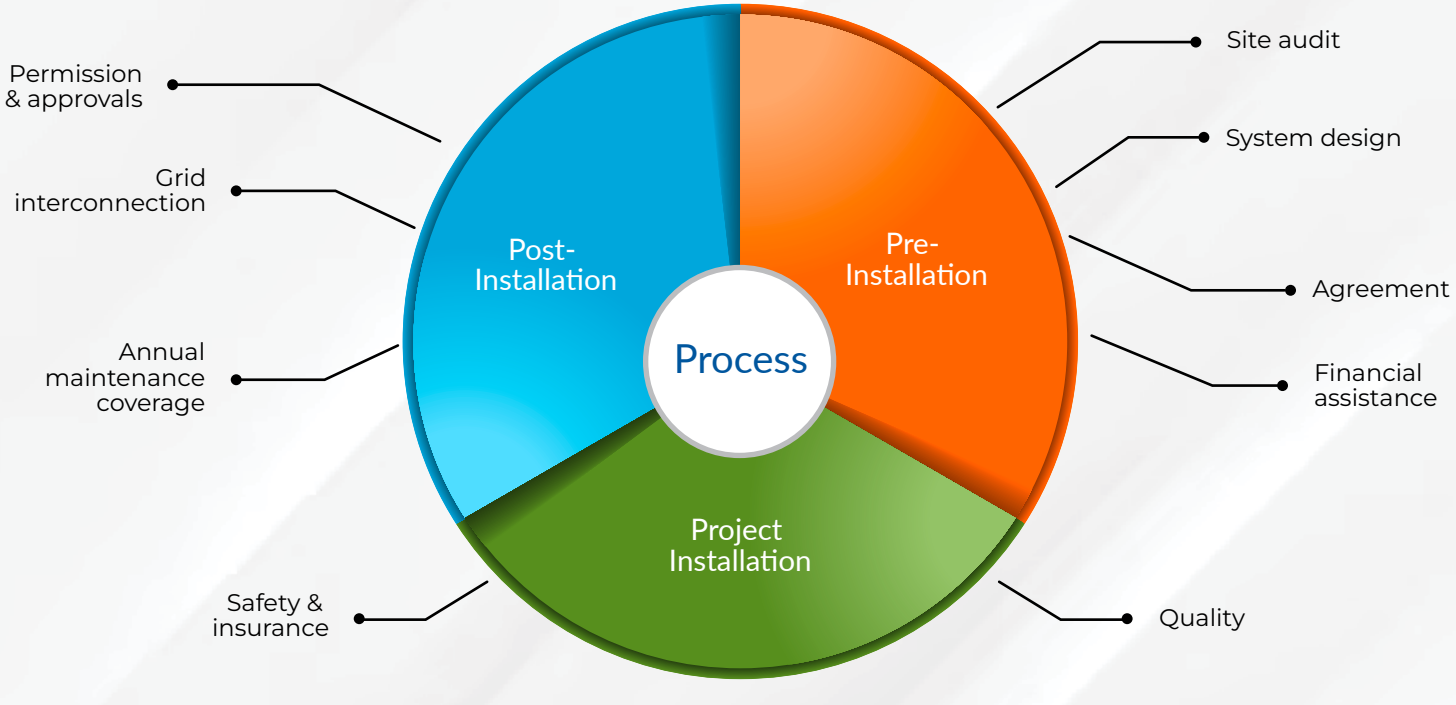
450+
Expert installers

65K+
Installed Sites

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



LUMINOUS SOLAR

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.

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

SAFETY

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

LUMINOUS SOLAR

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!

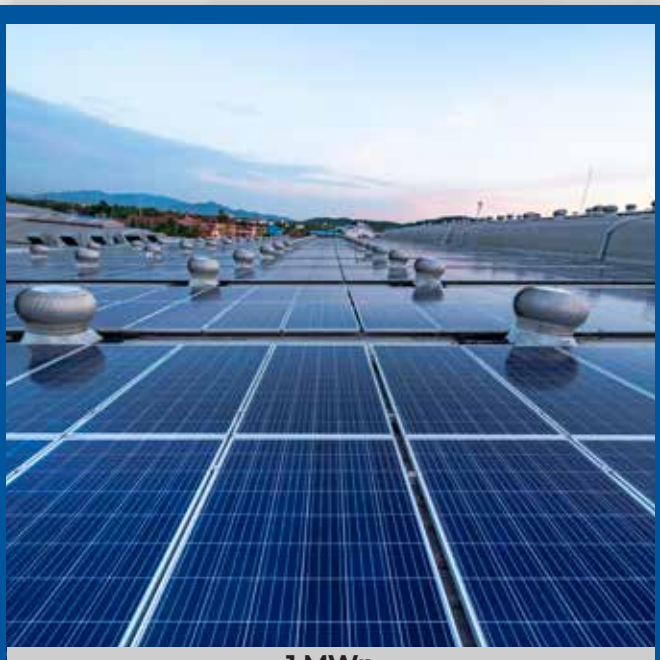
BEST QUALITY

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

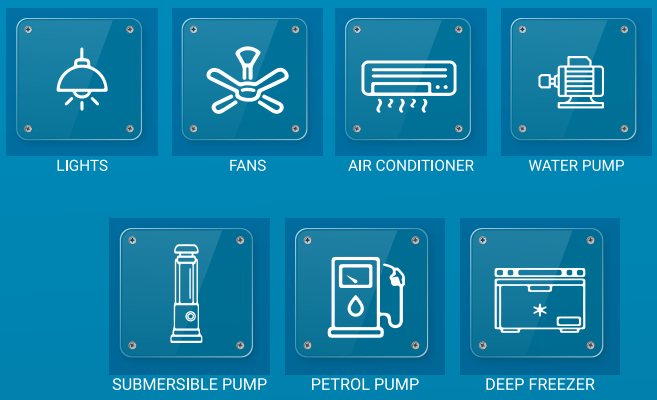
500 kWp
Bathinda, Punjab

OUR WIDE PORTFOLIO CATERING TO EVERY CONSUMER NEED

FOR HOME APPLIANCES WITH SHORT DUTY CYCLE

OFF GRID SOLAR SOLUTIONS

HYBRID SOLAR SOLUTIONS



FOR LIGHTING AND COOLING EQUIPMENTS WITH HEAVY DUTY CYCLE

FOR ALL KIND OF LOADS & DUTY CYCLES

ON GRID SOLAR SOLUTIONS

*For Representation Only. Check Inverter Ratings.

LUMINOUS SOLAR

For Homes & Small Shops

NXG SERIES
500VA to 2000VA

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

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

SOLARVERTER SERIES
2KVA/24V - 5KVA/48V

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

NXP 3500
3KVA/24V

NXP PRO 3500
3KVA/24V

NXE 5KVA & NXE PRO 15KVA

For Large Residences/Farmhouses, Commercial Establishments & Institutions

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

HYBRID TX SERIES 1 PHASE
3KVA, 4KVA & 5KVA

HYBRID TX SERIES 3 PHASE
10.5KVA TO 250KVA

OCT_25

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

ALMM Approved

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 the Detailed List of Manufacturers and Models of Solar PV Modules Recommended under ALMM Order

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/m 2 , Cell Temperature: 25 ℃, 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/m 2 ,Ambient Temperature: 20 ℃, 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/m 2 +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 Andonized 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				

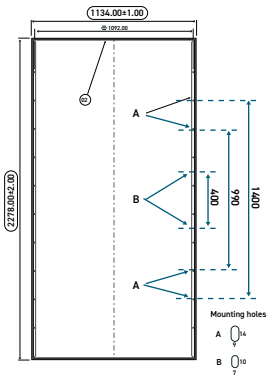
Warranty and Certifications	LUM 24575T144 BI-TS	LUM 24580T144 BI-TS	LUM 24585T144 BI-TS	LUM 24590T144 BI-TS	LUM 24595TG144 BI-TS
Product Warranty	12Years				
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30				
Approvals and Certificates*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

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

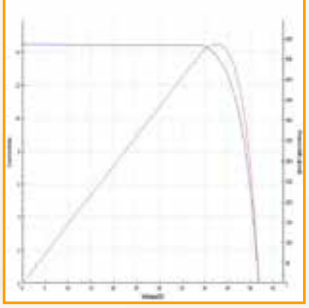
LUMINOUS SOLAR

Solar Module Dimension

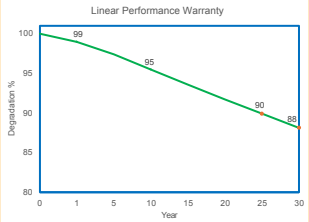
LUM24585T144 BI-TS



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.

Bi-facial Glass-to-Glass

Electrical Data (STC)	LUM 24575TG144 BI-GL	LUM 24580TG144 BI-GL	LUM 24585TG144 BI-GL	LUM 24590TG144 BI-GL	LUM 24595TG144 BI-GL
Peak Power Pmax (Wp)	575	580	585	590	595
Maximum Power Voltage Vmp (V)	42.44	42.59	42.74	42.88	45.8
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/m 2 , Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	LUM 24575TG144 BI-GL	LUM 24580TG144 BI-GL	LUM 24585TG144 BI-GL	LUM 24590TG144 BI-GL	LUM 24595TG144 BI-GL
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/m 2 ,Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	LUM 24575TG144 BI-GL	LUM 24580TG144 BI-GL	LUM 24585TG144 BI-GL	LUM 24590TG144 BI-GL	LUM 24595TG144 BI-GL
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/m 2 +ϕ.135, BIFACILITY COEFF. (ϕ) AT BNPI PMAX, ISC IS 80±10% & FOR VOC IS 99±10% , AM 1.5, 25°C

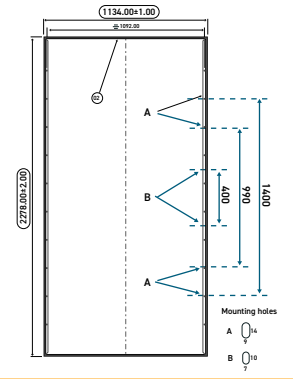
Electrical Characteristics with different rear side power gain (Reference 585 Wp Front)				
Bi-Faciality Gain	10%	15%	20%	25%
Peak power Pmax (Wp)	644.00	673	702	731
Maximum Power Voltage Vmp (V)	43.47	43.55	43.68	43.77
Maximum Power Current Imp (A)	14.81	15.44	16.09	16.73
Open Circuit Voltage Voc (V)	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%

Mechanical Data	LUM 24575TG144 BI-GL	LUM 24580TG144 BI-GL	LUM 24585TG144 BI-GL	LUM 24590TG144 BI-GL	LUM 24595TG144 BI-GL
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)	30 Kg				
IP Rating	IP 68 (With Potting)				
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors				
Frame	Silver Andonized 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)				

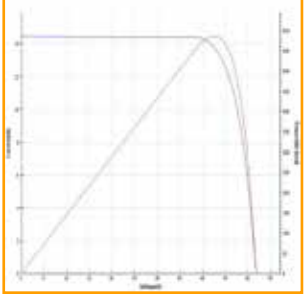
Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24575TG144 BI-GL	LUM 24580TG144 BI-GL	LUM 24585TG144 BI-GL	LUM 24590TG144 BI-GL	LUM 24595TG144 BI-GL
Operating Temperature	-40°C to +85°C				
Temp coefficient of Open Circuit Voltage	-0.26%/°C				
Temp coefficient of Short Circuit 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	12Years				
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				

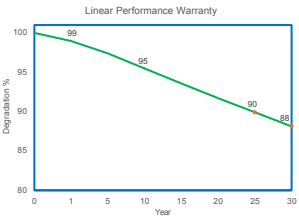
LUM24585T144 BI-GL



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.

LUMINOUS SOLAR

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

ALMM Approved

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

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)			

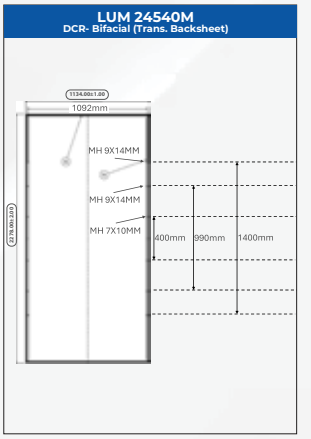
Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24540M (Mono-Facial)	LUM 24540M BI-TS	LUM 24545M BI-TS	LUM 24550M BI-TS
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.3%/°C			
Temp coefficient of Short Circuit Current	+0.06%/°C			
Temperature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

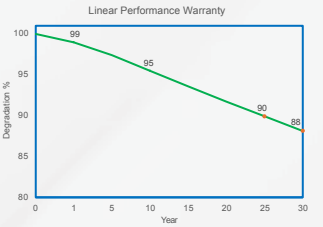
Packaging Information	LUM 24540M (Mono-Facial)	LUM 24540M BI-TS	LUM 24545M BI-TS	LUM 24550M BI-TS
Container	32 Feet			
Modules per pallet	36 Nos.			
Pallets per container	16 Nos.			
Modules per container	576 Nos.			

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

LUMINOUS SOLAR

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 pales 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

ALMM Approved

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

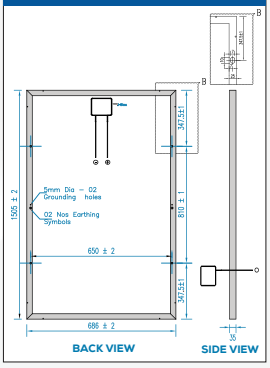
Electrical Parameters @ STC#

Model ALMM Reference Model	LUM 12170P
Cell Type	Poly
No. of Cells	36
Peak Power PMax (Wp)	170Wp
Rated Module Voltage (V)	12V
Maximum Power Voltage Vmp (V)	18.86V
Maximum Power Current Imp (A)	9.02A
Open Circuit Voltage Voc (V)	23.01V
Short Circuit Current Isc (A)	9.61A
Module Efficiency (%)	16.47
Maximum System Voltage (V)	600V
Maximum Series Fuse Rating	10A

#STC (1000W/m ²), AM1.5, cell temperature 25°C". Power Tolerance : 0/+5%. Power measurement accuracy:±3%

Solar Module Dimension

LUM 12170P



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.

LUMINOUS SOLAR

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%
>99% Efficiency

10
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)

*8 years standard + 2 years extended warranty

Solar Estimation Chart

Solution		Panel Connection Combination per MPPT (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
GTI	PV Panel Watt		
NXI 2kW	590Wp*4 Nos.	4 (S)	160
NXI 3kW	590Wp*6 Nos.	6 (S)	240
NXI 4kW	590Wp*7 Nos.	7 (S)	320
NXI 5kW	590Wp*9 Nos.	9 (S)	400
NXI 6kW	590Wp*11 Nos.	11 (S)	480
NXI 8kW	590Wp*14 Nos.	14 (S)	640
NXI 10kW	590Wp*18 Nos.	18 (S)	800

Grid Tie System

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

LUMINOUS SOLAR

Single Phase

Model Name	Nxi 120	Nxi 130	Nxi 140	Nxi 150
Rated output power (kW)	2	3	4	5
Input DC				
Max. DC Input Power (kW)	3	4.5	6.0	7.5
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	3	4	5
Max. output power [kW]	2.2	3.3	4.4	5
Max. output Current [A]	10.5	15.7	21	25
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	7.7	8.9	
Standards				
Safety/EMC	BIS Certified as per IS/IEC standards			

* Check availablity of GSM or Wi-Fi dongle before ordering.
Technical specifications are subject to change without prior notice.

LUMINOUS SOLAR

Three Phase

MODEL	Nxi 305	Nxi 306	Nxi 308	Nxi 310	Nxi 312	Nxi 315	Nxi 320
Rated output power (kW)	5	6	8	10	12	15	20
Input DC							
Max. DC Input Power (kW)	7.5	9.0	12	15	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	10	12	15	20
Max. output power [kW]	5.5	6.6	8.8	11	13.2	16.5	22
Max. output Current [A]	8.4	10	13.4	16.7	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 availablity of GSM or Wi-Fi dongle before ordering.
Technical specifications are subject to change without prior notice.

LUMINOUS SOLAR

Three Phase

MODEL	Nxi 325	Nxi 330	Nxi 350	Nxi 360	Nxi 380	Nxi 3100
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					

LUMINOUS SOLAR

GRID TIE INVERTERS - NXI W

Perfect for Commercial & Industrial Use

The NXIW series from is available in Three phase configuration. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities 125kw & 150kW.

>99% Efficiency

10 Years Warranty

Free Dongle Inside Box

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

LUMINOUS SOLAR

Three Phase

	Datasheet	NXI W3125	NXI W3150
Input (DC)	Max.DC power	187.5KW (Upto 150% DC Overloading)	225KW (Upto 150% DC Overloading)
	Max. DC voltage	1100V	
	Start voltage	195V	
	Nominal voltage	600V	
	MPP voltage range	180V-1000V	
	No. of independent MPPT inputs / strings per MPPT input	10 / 2	10/6*2+4*3
	Max. input current per MPP tracker	32A	45A
	Max. short-circuit current per MPP tracker	40A	56.5A
Output (AC)			
	AC nominal power	125kW@30°C 125kW@40°C 125kW@50°C	150kW@30°C 150kW@40°C 150kW@50°C
	Max. AC apparent power	137.5kW	165kW
	Nominal AC voltage	380VAC/400VAC	
	AC voltage(range*)	340VAC-440VAC	
	AC grid frequency range*	50/60 Hz(45~55Hz/55-65 Hz)	
	Max. output current	198.5A@400V 208.9A@380V	250.7A@380V 238.2A@400V
	Adjustable power factor	0.8leading ...0.8lagging	
	THDi	<3%	
	AC grid connection type	3W/N/PE	
Efficiency			
	Max.efficiency	98.8%	
	MPPT efficiency	99.9%	
Protection devices			
	DC reverse polarity protection	✓	
	DC switch	✓	
	AC/DC surge protection	Type II / Type II	
	Insulation resistance monitoring	✓	
	AC short-circuit protection	✓	
	Ground fault monitoring	✓	
	String detection	✓	
	PID recovery function	✓	
General data			
	Dimensions (W / H / D)	970/640/345mm	1075/640/367mm
	Weight	84kg	93kg
	Operating temperature range	–30°C ... +60°C	
	Night time power consumption	< 1W	
	Topology	Transformerless	
	Cooling	Smart Cooling	
	Protection degree	IP66	
	Relative humidity	0~100%	
	Altitude	4000m	
	DC connection	H4/MC4 (Max.6mm^2)	
	AC connection	OT Terminal (Max. 240mm^2)	
	Display	LED/WIFI+APP	
	WiFi Dongle	Inbox	
	Cetifications	CE,IEC62116, IEC61727, CQC, VDE0126, VFR2019, EN50549-1/2, C10/C11, UNE206007, G99, CEI 0-21/0-16, N4105&N4110, UNE206006,MEA, PEA, KSC8565	

* The AC voltage range and frequency range may vary depending on specific country grid standard.
All specification are subject to change without notice

LUMINOUS SOLAR

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 340000 VA@40°C 300000 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	

LUMINOUS SOLAR

GRID TIE INVERTERS - NXI T

Perfect Blend of Safety and Efficiency

The NXI T 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

Solar Estimation Chart

Solution		Panel Connection Combination per MPPT (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
GTI	PV Panel Watt		
NXI T130	590Wp*6 Nos.	6 (S)	240
NXI T150	590Wp*9 Nos.	9 (S)	400
NXI T310	590Wp*18 Nos.	18 (S)	800

Grid Tie System

Inbox Wi-Fi Dongle

LUMINOUS SOLAR

Single Phase & Three Phase

Model Name	NXI T130	NXI T150	NXI T310
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	15.0
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.

LUMINOUS SOLAR

For more information

Solar Grid Tie Inverter - On Grid Solar Solution for maximizing savings !
9,850 views 48 1 SHARE

Luminous India
Published on Apr 8, 2018

Tired of paying high electricity bills every month? Switch to Luminous Grid-Tie Inverter NOW! Produce your own electricity using solar, consume it, feed the surplus generated back to the grid and get paid for it!

SHOW MORE

youtube/user/myluminousindia

YouTube

Subscribe to our Channel

Follow our Social Media Channels & Visit our Website for Blogs, Videos & more product information.

OCT_25

LUMINOUS SOLAR

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

LUMINOUS SOLAR

Solar Estimation Chart

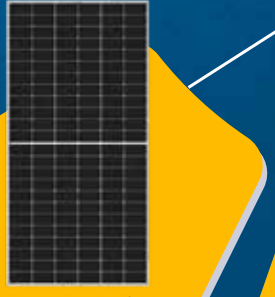
Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Hybrid Inverter	Solar Battery	PV Panel Watt		
Hybrid Tx 3KVA	150Ah x 4	590Wp*6 Nos.	3 (S) 2 (P)	240
Hybrid Tx 4KVA	150Ah x 4	590Wp*8 Nos.	2 (S) 4 (P)	320
Hybrid Tx 5KVA	150Ah x 4	590Wp*9 Nos.	3 (S) 3 (P)	400

Hybrid Inverter

Inbox Wi-Fi Dongle

Net Meter

Main Supply



PV Panel

Load

Solar Battery

LUMINOUS SOLAR

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		

LUMINOUS SOLAR

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

LUMINOUS SOLAR

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 ± 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 ±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	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 ± 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 ±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	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

LUMINOUS SOLAR

SOLAR NXE

Run Everything Everytime

Solar NXE 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, Solar NXE is available in 5kVA.

2 Years Warranty

Max PV Capacity Utilization

Multicolor LCD Display

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

Max PV Capacity Utilization
Connect Solar Panels upto 5400Wp

Multicolor 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.

LUMINOUS SOLAR

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar PCU	Solar Battery	PV Panel Watt		
SOLAR NXE 5KVA	150Ah x 4	590Wp x 10 Nos.	2(S) 5(P)	400

Solar NXE

LUMINOUS SOLAR

Technical Specifications

Model Name	SOLAR NXE 5KVA
Capacity (kVA)	5KVA
Nominal Battery Voltage (Vdc)	48V
Output Waveform	Sine Wave
SOLAR PHOTOVOLTAIC INPUT	
Type of Charger	PWM
Maximum PV power	5400Wp
Solar Input Voltage range (Voc)	100V
Charge Controller Rating	70A
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 Mains	Default: 16A, (User settable: 5A- 24A)
Battery Charging Stages	Bulk, Boost, Float
Battery Types Supported	Tubular/VRLA/Flat Plate
INVERTER	
Switching Element	MOSFET
Nominal Output Voltage (V)	230Vac
Output Waveform	Sine Wave
Nominal Frequency	50 Hz
Nominal Output Current	17.7A
Output Voltage Distortion(THD)	< 3%
Overload at nominal output voltage	>110%
SYSTEM DATA	
Transfer Time	<20mSec
Protection	Overload, Short Circuit, Low Battery Cut-Off, Over Temperature, PV Reverse
Display Parameters	AC Mains Voltage, Running Load %, Battery Input Voltage, Battery Charging/Discharging Current, Solar kWH Used, Solar Status, Fault Status, Low Battery, Output Voltage
Indications	LCD Backlight Indications: Red- Any Fault, Yellow- Solar + inverter (No AC Mains), Green- AC Mains Available LED Indications: On/off Switch, UPS/INV mode enable /disable, Charging current LC/HC, Power saving
ENVIRONMENT	
IP Protection Level	IP20
Operating Temperature	0-45 °C
Cooling	Forced Cooling
Max. Relative Humidity @ 25 °C	5% - 95% Non-Condense
Max. Altitude above sea level without de-rating (m)	2000 Mtr
GENERAL	
Dimension (LxWxH) [mm]	277 x 410 x 470
Net Weight (Kg)	44kg

Technical specifications are subject to change without prior notice.

LUMINOUS SOLAR

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

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

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.

LUMINOUS SOLAR

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar PCU	Solar Battery	PV Panel Watt		
SOLAR NXE PRO 15KVA	150Ah x 20	590Wp x 27 Nos.	9 (S) 3 (P)	1200

Solar NXE PRO

LUMINOUS SOLAR

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.

LUMINOUS SOLAR

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.

LUMINOUS SOLAR

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar PCU	Solar Battery	PV Panel Watt		
SOLARVERTER PRO 2KVA eco	150Ah x 2	590Wp*4 Nos.	2(S) 2(P)	160
SOLARVERTER PRO 3KVA eco	150Ah x 3	590Wp*6 Nos.	2(S) 3(P)	240
SOLARVERTER PRO 3.5KVA	150Ah x 4	590Wp*6 Nos.	3(S) 2(P)	280
SOLARVERTER PRO 5KVA	150Ah x 4	590Wp*9 Nos.	3(S) 3(P)	400
SOLARVERTER PRO 6KVA	150Ah x 8	590Wp*12 Nos.	4(S) 3(P)	480
SOLARVERTER PRO 7.5KVAeco	150Ah x 8	590Wp*14 Nos.	7(S) 2(P)	600
SOLARVERTER PRO 10.1KVA eco	150Ah x 10	590Wp*18 Nos.	6(S) 3(P)	800

Solarverter PRO PCU

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

LUMINOUS SOLAR

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.

LUMINOUS SOLAR

Technical Specifications

Model Name	SOLARVERTER PRO 5KVA	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.

LUMINOUS SOLAR

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.

LUMINOUS SOLAR

For more information

SOLARVERTER PRO New Range of Solar PCU

Luminous India
Published on Aug 21, 2020

youtube/user/myluminousindia

YouTube

Subscribe to our Channel

Follow our Social Media Channels & Visit our Website for Blogs, Videos & more product information.

LUMINOUS SOLAR

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, Solarverter is available in 2kVA to 5kVA.

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.

LUMINOUS SOLAR

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar PCU	Solar Battery	PV Panel Watt		
SOLARVERTER 2KVA	150Ah x 2	590Wp x 4 Nos.	4 (P)	160
SOLARVERTER 3KVA	150Ah x 4	590Wp x 6 Nos.	2 (S) 3 (P)	240
SOLARVERTER 5KVA	150Ah x 4	590Wp x 10 Nos.	2 (S) 5 (P)	400

Solarverter PCU

LUMINOUS SOLAR

Technical Specifications

Model Name	SOLARVERTER 2KVA	SOLARVERTER 3KVA	SOLARVERTER 5KVA
Capacity (kVA)	2kVA	3kVA	5kVA
Nominal Battery Voltage (Vdc)	24V	48V	48V
Output Waveform	Sine Wave		
SOLAR PHOTOVOLTAIC INPUT			
Type of Charger	PWM		
Maximum PV power	2000W	3000W	5000W
Solar Input Voltage range (Voc)	36V-60V	72V-120V	65V-120V
Charge Controller Rating	55A	45A	70A
GRID INPUT	Sine Wave		
Input Supply Phases	Single Phase		
Operating Voltage range	140V-290V		
Nominal Grid Current (import)	18	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	7A	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 326 x 284	300 x 352 x 429	300 x 417 x 415
Net Weight (Kg)	25kg	31.5kg	38kg

Technical specifications are subject to change without prior notice.

LUMINOUS SOLAR

For more information

SOLARVERTER New Range of Solar PCU

Luminous India
Published on Aug 21, 2020

youtube/user/myluminousindia

YouTube

Subscribe to our Channel

Follow our Social Media Channels & Visit our Website for Blogs, Videos & more product information.

LUMINOUS SOLAR

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.

* can pump and lift water from depths of up to 150 ft considering maintained motor.

LUMINOUS SOLAR

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar PCU	Solar Battery	PV Panel Watt		
NXP PRO 3500	150Ah x 2	550Wp x 4 Nos.	2(S) 2(P)	160

NXP PRO 3500

LUMINOUS SOLAR

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**
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 & Overlaod LED Steady	
Output Feedback open/Reverse	ON Mains LED & Overlaod 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)	26.18	
Gross weight (Kg)	29	
Dimensions LxWxH (mm)	300X410.7 X 309	

Technical specifications are subject to change without prior notice.

LUMINOUS SOLAR

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

* can pump and lift water from depths of up to 150 ft considering maintained motor.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar PCU	Solar Battery	PV Panel Watt		
NXP 3500 3KVA	150Ah x 2	550Wp x 4 Nos.	4 (P)	160

NXP 3500

LUMINOUS SOLAR

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	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 & Overlaod LED Steady				
Output Feedback open/Reverse	ON Mains LED & Overlaod 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)	24.2 kg				
Gross weight (Kg)	25.7 kg				
Dimensions LxWxH (mm)	300x291x284mm				

Technical specifications are subject to change without prior notice.

LUMINOUS SOLAR

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
90 V
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.

LUMINOUS SOLAR

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar Inverter	Solar Battery	PV Panel Watt		
NXG 850e	150Ah x 1	170Wp x 3 Nos.	3 (P)	40
NXG 1150e	150 Ah x 1	170Wp x 5 Nos.	5 (P)	70
NXG 1450e	150Ah x 1	170Wp x 6 Nos.	6 (P)	90
NXG 1850e	150 Ah x 2	590 Wp x 3 Nos.	3 (P)	120
NXG 2350	150Ah x 2	590Wp x 4 Nos.	4 (P)	160

NXG Solar Inverter

LUMINOUS SOLAR

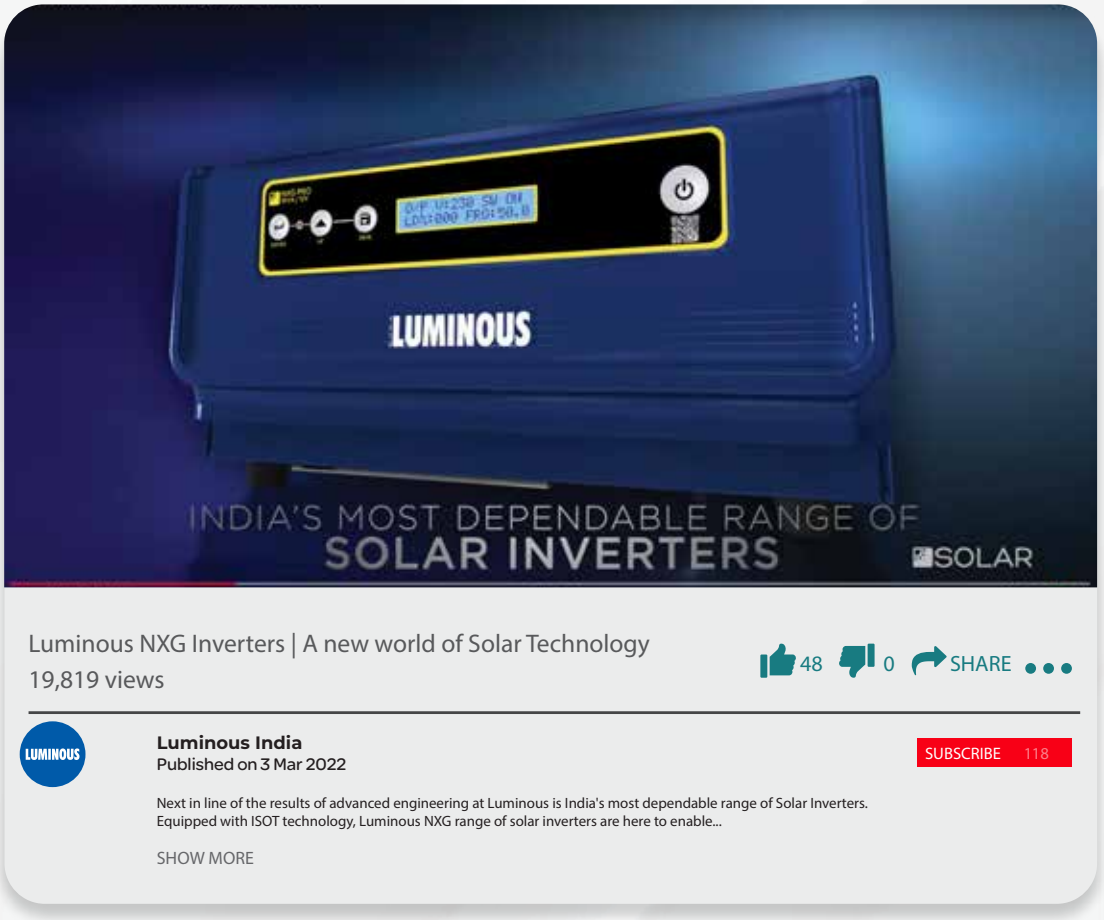
Technical Specifications

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 & Overlaod LED Steady				
Output Feedback open/Reverse	ON Mains LED & Overlaod 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.

LUMINOUS SOLAR

For more information



youtube/user/myluminousindia

YouTube

Subscribe to our Channel

Follow our Social Media Channels & Visit our Website for Blogs, Videos & more product information.

LUMINOUS SOLAR

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
90 V
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.

LUMINOUS SOLAR

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar Inverter	Solar Battery	PV Panel Watt		
NXG PRO 1KVA/12V	150Ah x 1	590Wp x 2 Nos.	2(P)	80
NXG PRO 1KVA/24V	150 Ah x 2	590Wp x 2 Nos.	2 (P)	80

NXG Pro Solar Inverter

LUMINOUS SOLAR

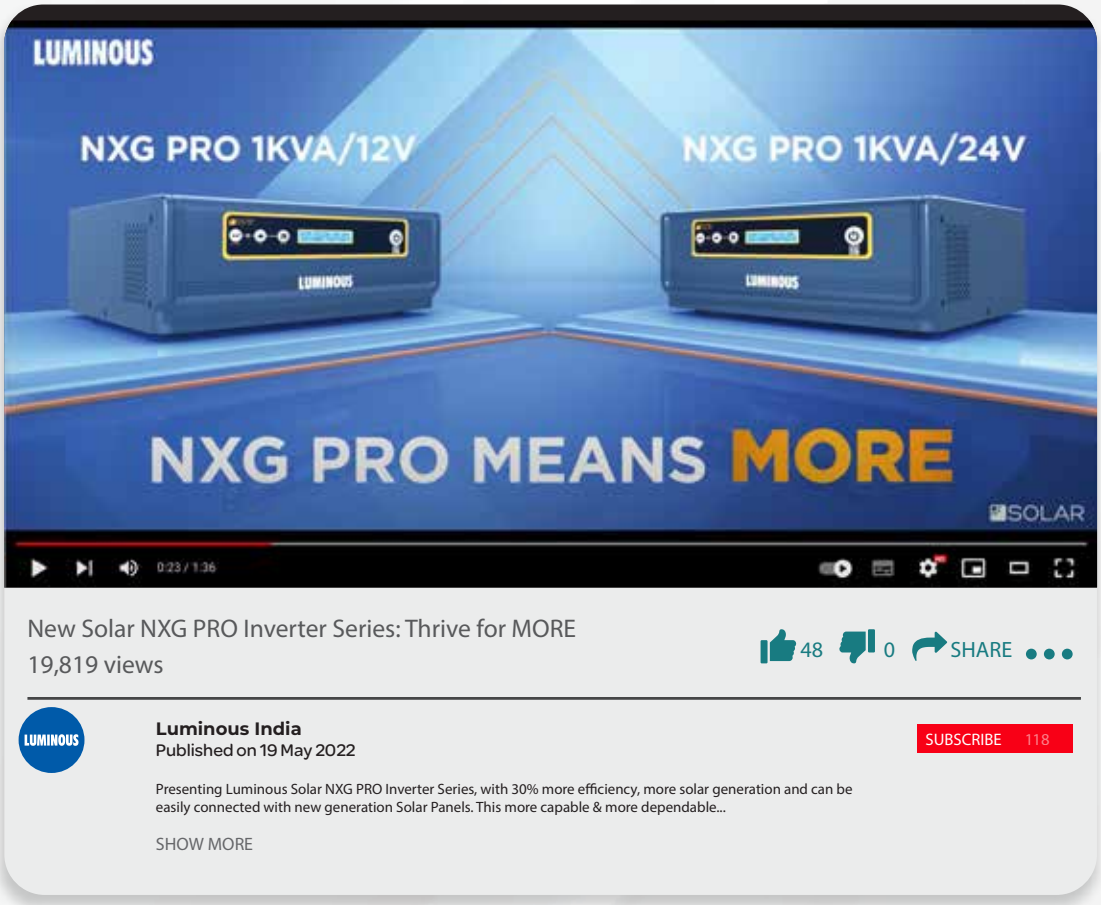
Technical Specifications

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 Battery, Overload, No Load Shutdown	Mains Available, Power Saving, Solar Current, Solar Voltage, Solar Power, System On, Grid Charging, Low	
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.

LUMINOUS SOLAR

For more information



youtube/user/myluminousindia

YouTube

Subscribe to our Channel

Follow our Social Media Channels & Visit our Website for Blogs, Videos & more product information.

LUMINOUS SOLAR

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

OCT_25

LUMINOUS SOLAR

Technical Specifications

Model Name	Sync-X	S3-Wi-Fi-ST	S4-Wi-Fi-ST
Electrcial 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 × 44 × 44	113 × 50 × 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

LUMINOUS SOLAR

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.

LUMINOUS
SOLAR

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	1.5mm² Maximum		2.5mm² Maximum		4mm² Maximum		10mm² Maximum	
Net Weight	130 gms		137 gms		142 gms		335.5 gms	

Technical specifications are subject to change without prior notice.

LUMINOUS SOLAR

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.

LUMINOUS SOLAR

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.

LUMINOUS SOLAR

SOLAR BATTERY
Power Of Performance

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 upto10.5V 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

COMING SOON

LUMINOUS
SOLAR

3 PHASE SOLAR HYBRID TX MAX INVERTER

10kVA - 30kVA

India's WIDEST RANGE of Solar Products

Inverters | Batteries | PV Panels

LUMINOUS

Luminous Power Technologies Pvt. Ltd.

Plot No. 150, Sector 44, Gurugram, Haryana –122003

Contact: 99902 99902, E-Mail: energysolution@luminousindia.com

/myluminous | /myluminous | /myluminousindia | www.luminousindia.com

OCT_25