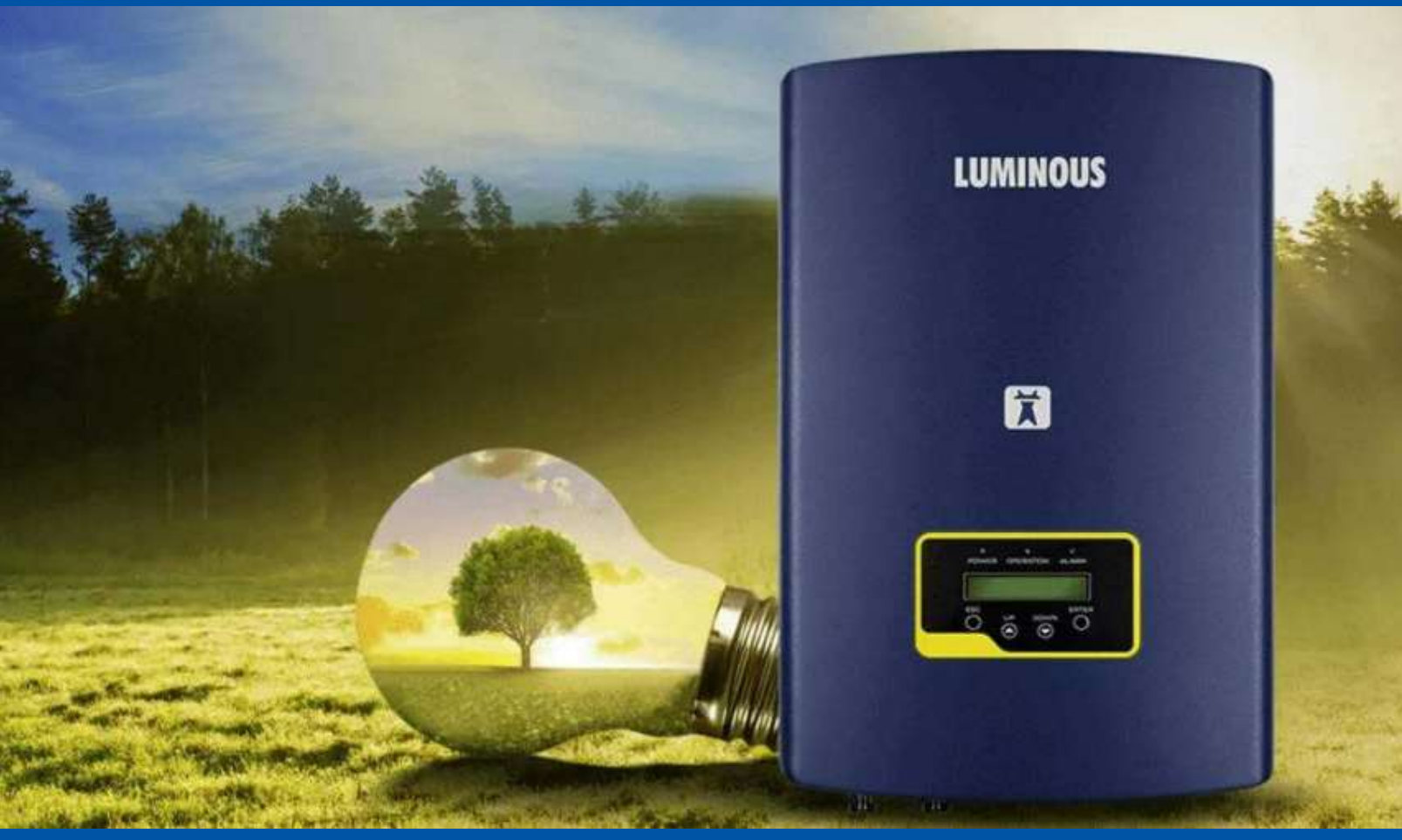
LUMINOUS

BIGGEST RANGE
OF SOLAR PRODUCTS

SOLAR
PRODUCT CATALOGUE 2023

LUMINOUS



WE MAKE

SOLAR SIMPLE

FOR YOU

LUMINOUS

OUR STORY

Luminous Power Technologies, with 35 years of experience, is a leading and trusted brand known for innovative **Power Back-up Solutions** like Inverters, Batteries, and **Solar Applications**. With a net worth of over INR 1,800 crores and a turnover exceeding INR 4,000 crores, we are the **No.1 player** in the Indian inverter and battery market.

Our vast presence includes 7 manufacturing units, 28+ sales offices across India, and operations in 36+ countries. Our 6,000 employees serve 1,00,000+ channel partners and 70 million customers.

We excel in after-sales service with a PAN India network of 250+ service centers, doorstep service, 24-hour response time, trained professionals, and 24x7 call support—all at competitive rates.

35 Years of History

7 Factories

100000+ Strong Channel Network

250+ Service Centers

70Mn+ Happy Consumers

36+ Countries of Sale

6000+ People

115+ Strong R&D

650+ District

SOLAR

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LUMINOUS SOLAR

Luminous has been at the fore front in **rooftop solar installation in India** with more than 1600 projects across 200+ site through an expert base of 300+ 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 Inverter) and Solar Batteries, Charge Controller & BOS.

400+ MWp
Installed capacity

10000+
Site survey

300+
Expert installers

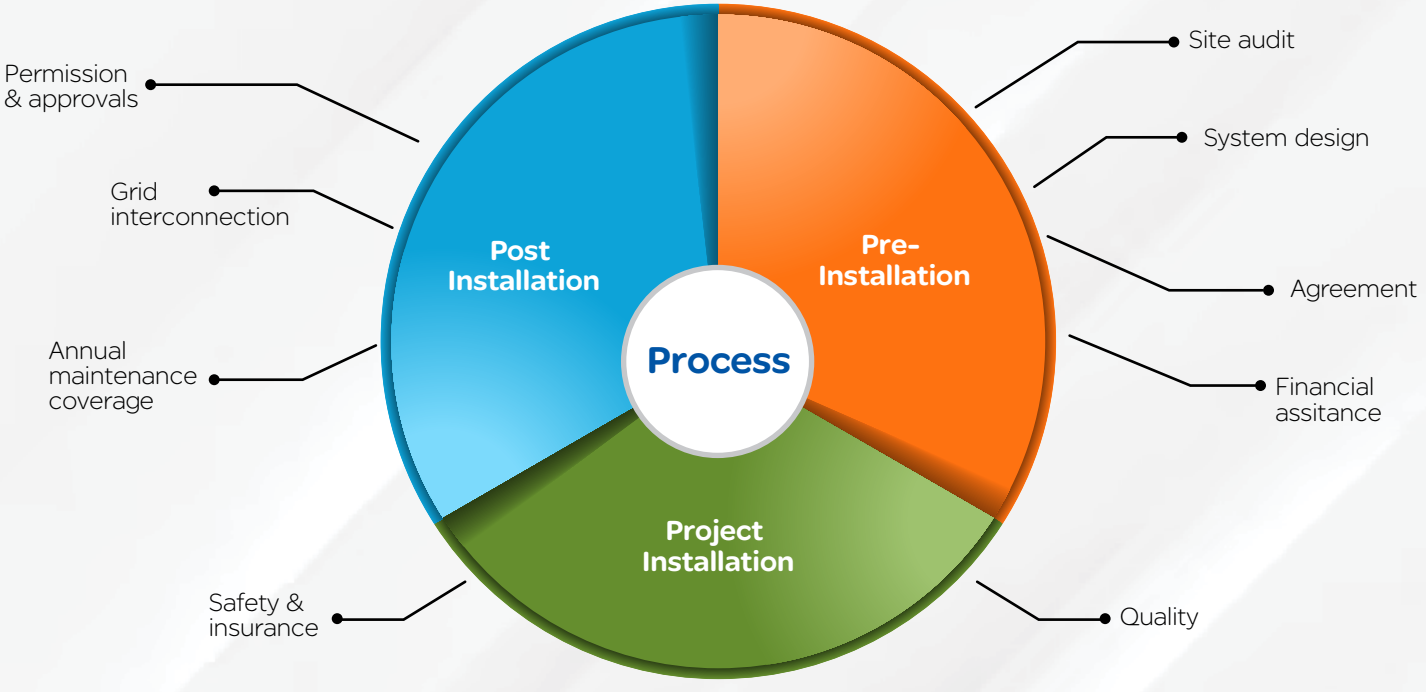
200+
Sites

Making Solar Simple

- End to End Solar Rooftop Solutions
- One stop destination for all range & needs
- Seamless, expertly - managed installation process.

Right Design, Designed Right

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



SOLAR

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OUR SOLAR EXPERTISE

DEDICATED TEAM

- Dedicated team of professionals for each stage.
- Site survey, solution design, project installation, operations and after sale teams collaborate for top-tier experience.
- Robust & Maintenance Free Rooftop Solution.

CONFORMANCE TO GOVT. STANDARDS

- BOS as per Indian Standards, IS :3043.
- Safety from all types of electrical hazards.
- Proper cable sizing to reduce generation losses & optimize performance.

INSTALLATION

- Installation & commissioning by MNRE approved partners
- Best in class material, as per MNRE standards

AUDITS

- Multiple audits by Luminous solar experts during & after installation
- Products tested, validated & certified as per IS, IEC, TUV standards.
- Plant remotely monitored for one year.

SAFETY

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

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UTILITY SCALE PROJECTS – EXAMPLES

HARIDWAR - 1MW
SECTOR- POWER MFG. PLANT

JAIPUR - 500KW
SECTOR- EXPORT STONE MFG. PLANT

ROHTAK - 200KW
SECTOR- AGRO PRODUCT MFG. PLANT

JALANDHAR - 102KW
SECTOR- PRINTER PLANT

PATIALA - 102KW
SECTOR- METAL PLANT

PANIPAT - 100KW
SECTOR- TEXTILE FIRM

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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 UN-MATCHED 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

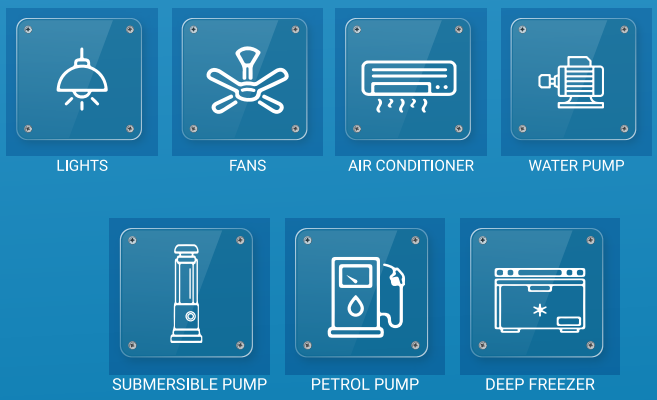
SOLAR

Our Wide Portfolio catering to every consumer need

For home appliances with short duty cycle

OFF GRID SOLAR SOLUTIONS

OFF GRID & HYBRID SOLAR SOLUTIONS



For lighting and cooling equipments with heavy duty cycle

For all kind of loads & duty cycles

ON GRID SOLAR SOLUTIONS

SOLAR

*For Representation Only. Check Inverter Ratings.

LUMINOUS

For Homes & Small Shops

NXG SERIES
500VA to 2000VA

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

For Large Residences/Farmhouses,
Offices & Retail Establishments

SOLARVERTER SERIES
2KVA/24V & 3 KVA/48V

SOLARVERTER PRO SERIES
2KVA to 10KVA

For Large Residences/Farmhouses,
Commercial Establishments & Institutions

HYBRID TX SERIES
3.75KVA to 5KVA

GRID TIE INVERTERS
3 KW to 110KW

NOV 23.1

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 & 12 Years*
Product Warranty

ALMM Approved

Enlisted under
ALMM Order

LOW-LIGHT

Excellent Low-light Performance
Built with high quality glass and solar cell surface cooting, especially for performance in low-light conditions.

Resilience to Extreme Weather
The robust waterproof, corrosion and torsion resistant design offers protec-tion against wind and snow.

ANTI PID

Safety and Protection
Designed to eliminate power loss owing to stray currents

Advance EVA Encapsulation
Designed with multi loyer EVA (ethyl vinyl acetate) encapsulation for better module protection.

CONVERSION

Best in Class Efficiency
Innovative cell technology ensures optimum solar power generation providing high value for money.

SOLAR

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

LUMINOUS

Electrical Parameters @ STC#

Model ALMM Reference Model	LUM 1240	LUM 1280	LUM 12110	LUM 12170	ALP 335W
Cell Type	Poly	Poly	Poly	Poly	Poly
No. of Cells	36	36	36	36	72
Peak Power PMax (Wp)	40	80	110	170	335
Rated Module Voltage (V)	12	12	12	12	24
Maximum Power Voltage Vmp (V)	18	18	18.15	18.86	38.08
Maximum Power Current Imp (A)	2.23	4.4	6.07	9.02	8.80
Open Circuit Voltage Voc (V)	22	22	22.10	23.01	46.02
Short Circuit Current Isc (A)	2.42	4.8	6.35	9.61	9.43
Module Efficiency (%)	13.72%	15.21%	15.50%	16.47%	16.85%
Maximum System Voltage (V)	600V	600V	600V	600V	1500V
Maximum Series Fuse Rating	12A	12A	12A	12A	20A

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

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

Mechanical Data

Module Dimensions (mm) LxWxT	435x670 x34	785x670 x34	1035x670 x34	1505x686 x35	1986x1001 x35
Module Weight (kgs)	3.30	6.50	8.20	11	21
IP Rating	IP 65	IP 65	IP 65	IP 65	IP 67
Cable	No cable			1000mm length cables	
Frame	Silver Anodized Aluminium Alloy				
Glass	3.2mm thick high transmission low iron tempered glass, AR coated				
Cell Encapsulant	EVA (Ethyelene Vinyl Acetate)				
Back Sheet	Composite Film				
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	-0.3%/°C
Temp coefficient of Short Circuit Current	0.07 %/°C	+0.06%/°C
Temp coefficient of Power	-0.29 %/°C	-0.35%/°C

Warranty and Certifications

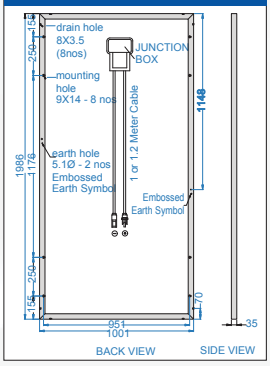
Product Warranty**	5 Years	12 Years
Performance Warranty**	Linear Performance Warranty for 25 Years with 3% for 1st year degradation and 0.70% from year 2 to 25	
Approvals and Certificates	BIS certified as per IS/IEC standards	

** Refer to Luminous Warranty document for Terms and conditions.

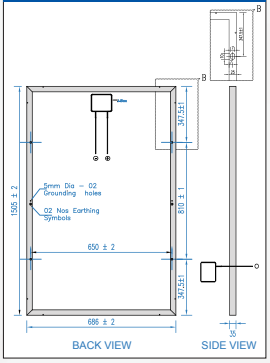
Technical specifications are subject to change without prior notice.

Solar Module Dimension

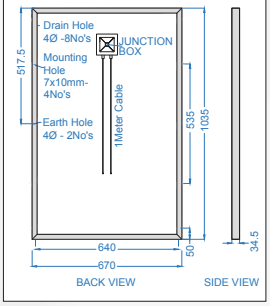
ALP 335W



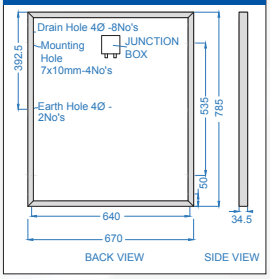
LUM 12170



LUM 12110



LUM 1280



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MONO PERC HALF CUT SOLAR PANEL

Designed For High Performance

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

LOW-LIGHT

Excellent Low-light Performance
Built with high quality glass and solar cell surface cooting, especially for performance in low-light conditions.

Functions like 2 parallel modules
Enables the module to perform in PARTIAL SHADOW CONDITIONS with respect to full-cell module

Lower Resistive Losses
Boosts module power helping to achieve minimal power loss with respect to previous variant modules

ANTI PID

PID Resistance
Technology Designed to eliminate power loss owing to stray currents

Space Efficient
They are space-efficient and require the least amount of space as compared to their counterparts.

SOLAR

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

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Electrical Parameters @ STC#

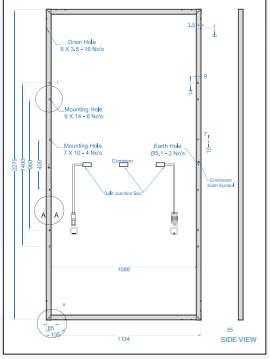
Model ALMM Reference Model	LUM 540DCR	PE- 550HM
Cell Type	Mono PERC Half Cut	Mono PERC Half Cut
No. of Cells	144	144
Peak Power PMax (Wp)	540	550
Rated Module Voltage (V)	24	24
Maximum Power Voltage Vmp (V)	41.92	41.95
Maximum Power Current Imp (A)	12.89	13.12
Open Circuit Voltage Voc (V)	49.40	49.80
Short Circuit Current Isc (A)	13.72	13.98
Module Efficiency (%)	20.89%	21.28%
Maximum System Voltage (V)	1500V	1500V
Maximum Series Fuse Rating	25A	25A

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

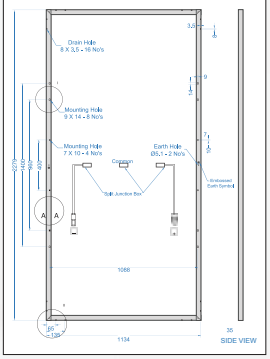
Our solar panels are included in Detailed List of Manufacturers and Models of Solar PV Modules Recommended under ALMM Order

Solar Module Dimension

PE-550HM



LUM 540DCR



Mechanical Data

Module Dimensions (mm) LxWxT	2279x1134 x35
Module Weight (kgs)	29
IP Rating	IP 67
Cable	400mm length cables
Frame	Silver Anodized Aluminium Alloy
Glass	3.2mm thick high transmission low iron tempered glass, AR coated
Cell Encapsulant	EVA (Ethyelene Vinyl Acetate)
Back Sheet	Composite Film
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	-0.3%/°C
Temp coefficient of Short Circuit Current	+0.06%/°C
Temp coefficient of Power	-0.35%/°C

Warranty and Certifications

Product Warranty**	12 Years
Performance Warranty**	Linear Performance Warranty for 25 Years with 3% for 1st year degradation and 0.70% from year 2 to 25
Approvals and Certificates	BIS certified as per IS/IEC standards

** Refer to Luminous Warranty document for Terms and conditions.

Technical specifications are subject to change without prior notice.

GRID TIE INVERTERS

Perfect Blend of Safety and Efficiency

The NXi range from Luminous is available in single and three phase configurations. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities from 3kW to 110 kW.

>99%
Efficiency

8 Years
Warranty

Remote
Monitoring

MPPT **Maximum Power Point Tracking**
MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.

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
(50kW & above models)

String Level Monitoring
Allows monitoring at each individual string level to ensure consistent output of system
(50kW & above models)

Night SVG Function
Helps in providing sufficient reactive power required by grid & produces 60% of reactive power of its rated max output
(80kW & above models)

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Solar Estimation Chart

Solution		No. of MPPT	Panel Connection Combination per MPPT (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
GTI	PV Panel Watt			
NXI 3kW	550Wp x 8 No.s	1	8 (S)	480
NXI 4kW	550Wp x 10 No.s	2	10 (S)	600
NXI 5kW	550Wp x 12 No.s	2	12 (S)	720
NXI 6kW	550Wp x 16 No.s	2	16 (S)	960
NXI 8kW	550Wp x 20 No.s	2	20 (S)	1200
NXI 10kW	550Wp x 26 No.s	2	26 (S)	1560

Grid Tie System

Single Phase

Model Name	Nxi 130	Nxi 140	Nxi 150
Rated output power (kW)	3	4	5
Input DC			
Max. DC Input Power (kW)	4.5	6.0	7.5
Max. DC Input Voltage (V)	600	550	
Start-up Voltage [V]	90	100	
MPPT Voltage range (V)	80 - 500	90 - 550	
Max input current per MPPT (A)	14A	16A/16A	
Number of MPPT a	1	2	
Max Input Strings Number	1	2	
Output (AC)			
Rated output power (kW)	3	4	5
Max. output power [kW]	3.3	4.4	5
Max. output Current [A]	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, slanding Protection, Temperature Protection		
Interface			
DC Connection	MC4 Connectors		
Display	LCD 2X 20 Z	LED + Bluetooth App	
Datalogger & Communication	RS485/GSM/Wifi* (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)	7.7	8.9	
Standards			
Safety/EMC	BIS Certified as per IS/IEC standards		

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

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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, Islanding Protection, Temperature Protection, Integrated DC Switch (optional)						
Interface							
DC Connection	MC4 Connectors						
Display	LCD 2X 20Z						
Datalogger & Communication	RS485/GSM/Wifi* (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						

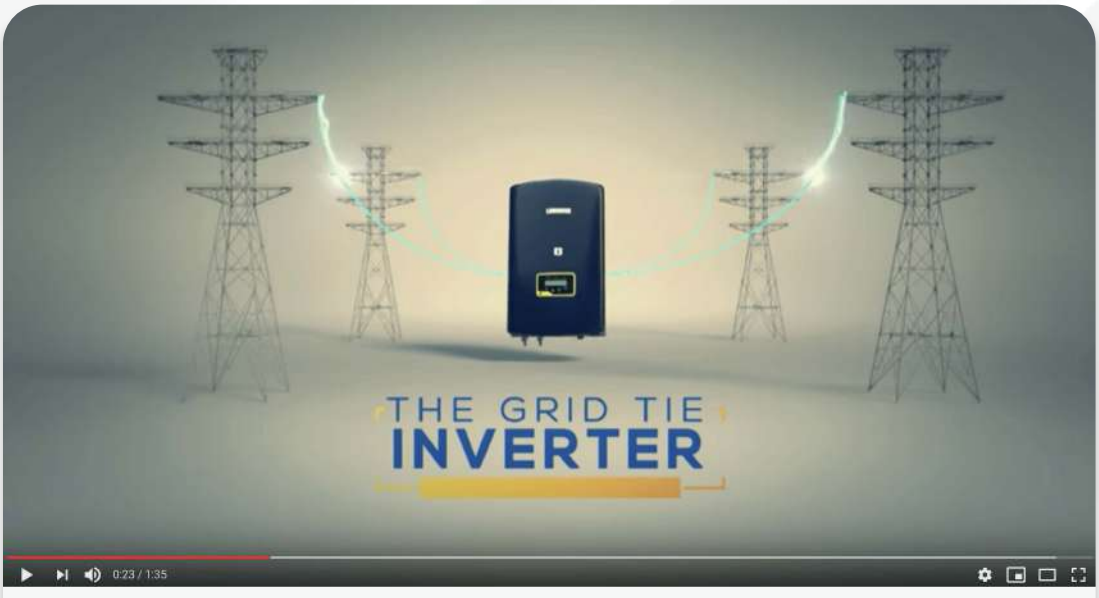
* Check availablity of GSM or wifi dongle before ordering.
Technical specifications are subject to change without prior notice.

Three Phase

MODEL	Nxi 325	Nxi 330	Nxi 350	Nxi 3600	Nxi 380	Nxi 3100	Nxi 3110
Rated output power (kW)	25	30	50	60	80	100	110
Input DC							
Max. DC Input Power (kW)	37.5	45	75	90	120	150	165
Max. DC Input Voltage (V)	1100						
Start-up Voltage [V]	180		195		180		
MPPT Voltage range (V)	200-1000			180 - 1000	160 - 1000		
Max input current per MPPT (A)	32A/32A/32A		5*32A	6*32A	3*40A+3*32A	4*40A+4*32A	
Number of MPPT	3		5	6		8	
Max Input Strings Number	6		10	12		16	
Output (AC)							
Rated output power (kW)	25	30	50	60	80	100	110
Max. output power [kW]	27.5	33	55	66	88	110	121
Max. output Current [A]	27.5	33	83.3	100	133.7	167.1	183.8
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, Islanding Protection, Temperature Protection, Integrated DC Switch (optional)						
Interface							
DC Connection	MC4 Connectors						
Display	LCD, 2x20 Z						
Datalogger & Communication	RS485/GSM/Wifi* (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		54.5		79.5	93	
Standards							
Safety/EMC	BIS Certified as per IS/IEC standards						

LUMINOUS

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.

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 10kVA

2 Years Warranty

Smart Solar optimization

User Controller Settings

MPPT **Maximum Power Point Tracking**
MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.

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.

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

LUMINOUS

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	150Ah x 2	550Wp x 4 Nos.	2 (S) 2 (P)	120
SOLARVERTER PRO 3KVA	150Ah x 3	550Wp x 6 Nos.	3 (S) 2 (P)	240
SOLARVERTER PRO 3.5KVA	150Ah x 4	550Wp x 6 Nos.	3 (S) 2 (P)	240
SOLARVERTER PRO 5KVA	150Ah x 4	550Wp x 9 Nos.	3 (S) 3 (P)	540
SOLARVERTER PRO 6KVA	150Ah x 8	550Wp x 12 Nos.	5 (S) 4 (P)	720
SOLARVERTER PRO 7.5KVA	150Ah x 8	550Wp x 14 Nos.	7 (S) 2 (P)	840
SOLARVERTER PRO 10KVA	150Ah x 10	550Wp x 18 Nos.	9 (S) 2 (P)	1080

Solarverter PRO PCU

Technical Specifications

Model Name	SOLARVERTER PRO 2KVA	SOLARVERTER PRO 3KVA	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	2500W	3500W	3500W
Solar Input Voltage (Voc)	57V-105V	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]	300x326x284	300x417x452	590x433x523
Net Weight (kg)	25kg	32.5kg	47.5kg

Technical specifications are subject to change without prior notice.

LUMINOUS

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.

Technical Specifications

Model Name	SOLARVERTER PRO 7.5KVA	SOLARVERTER PRO 10KVA
Capacity (kVA)	7.5kVA	10kVA
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)	250V-400V	300V-500V
Solar Input Voltage range (Vmp)	200V-400V	250V-450V
No. of MPPT Channels	1	
GRID INPUT		
Input Supply Phase	Single Phase	
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac	
Mains mode (Unregulated UPS Mode)	140V-280V	
BATTERY		
No. of Batteries	8	10
Battery Charging Current from Solar	30A	
Battery Charging Current from Grid	0A, 4A-20A (user settable)	
Charging Stages	Boost, Absorption, Float	
Type of Battery	Tubular/SMF/Flat	
INVERTER		
Switching Element	IGBT	
Control	32 Bit DSP Controlled	
Nominal Output Voltage (V)	230V ± 5%	
Output Supply Phase	1 Phase 2 Wire	
Nominal Frequency	50 Hz	
Nominal Output Current	26A+/-1A	34A+/-1A
Output Voltage Distortion(THD)	<= 5%	
SYSTEM DATA		
Transfer Time	<20 mS	
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery	
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
ENVIRONMENT		
IP Protection Level	IP20	
Operating Temperature	0-45 °C	
Storage Temperature	0-50°C	
Cooling	Forced Air Cooling	
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)	
GENERAL		
Dimension (L*W*H) [mm]	690x400x500	740x400x580
Net Weight (kg)	78 kg	101 kg

Technical specifications are subject to change without prior notice.

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For more information

SOLARVERTER PRO New Range of Solar PCU

Luminous India
Published on Aug 21, 2020

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SOLARVERTER PCU

Superior Performance

Solarverter range from Luminous allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, Solarverter is available in 2kVA and 3kVA models.

2 Years Warranty

Smart Solar optimization

User Controller Settings

3 User Settable Saving Modes
Solar, Solar+Grid, Grid+Solar

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

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

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

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

SOLAR

LUMINOUS

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	550Wp x 4 Nos.	2 (S) 2 (P)	120
SOLARVERTER 3KVA	150Ah x 3	550Wp x 6 Nos.	3 (S) 2 (P)	240

Solarverter PCU

Technical Specifications

Model Name	SOLARVERTER 2KVA	SOLARVERTER 3KVA
Capacity (kVA)	2kVA	3kVA
Nominal Battery Voltage (Vdc)	24V	48V
Output Waveform	Sine Wave	
SOLAR PHOTOVOLTAIC INPUT		
Type of Charger	PWM	
Maximum PV power	2000W	3000W
Solar Input Voltage range (Voc)	36V-60V	72V-120V
Charge Controller Rating	55A	45A
GRID INPUT		
Input Supply Phases	Single Phase	
Operating Voltage range	140V-290V	
Nominal Grid Current (import)	18	9
BATTERY		
Battery Charging Current from Solar	30A	
Battery Charging Current from Mains	0A,15A,20A	
Battery Charging Stages	Boost, Absorption, Float	
Battery Types Supported	Tubular/VRLA/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
Output Voltage Distortion(THD)	< 3%	
Overload at nominal output voltage	110-150% 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-21	
Operating Temperature	0-55 °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]	458 x 433 x380	485 x 433 x 557
Net Weight (Kg)	27kg	35kg

Technical specifications are subject to change without prior notice.

LUMINOUS

For more information

SOLARVERTER New Range of Solar PCU

Luminous India
Published on Aug 21, 2020

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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 3.75KVA & 5KVA.

Remote Monitoring

Savings & Backup Together

Safe and Reliable

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

SOLAR

LUMINOUS

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 3.75KVA	150Ah x 4	550Wp x 4 Nos.	2 (S) 2 (P)	120
HYBRID TX 5KVA	150Ah x 4	550Wp x 6 Nos.	3 (S) 2 (P)	240

Hybrid Inverter

Technical Specifications

Model	HYBRID TX 3.75kVA	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
Input Voltage Range (Voc)	65V – 165 V	
Input Voltage Range (Vmp)	65V – 130 V	
Maximum I/P Current (Array)	46A	61A
Maximum MPPT Output current (A)	60A	80A
Maximum Conversion Efficiency (%)	>95%	
GRID INPUT		
Input Supply Phase	Single Phase	
Grid Voltage Range	180V - 270V	
Nominal Grid Current (import)	21A	29A
GRID OUTPUT		
Grid Current (export)	12A ± 2A	16A ± 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)	13A	17A
Output Voltage Distortion (THD)	<4%	
Overload at nominal output voltage	110% for 10 minutes, 125% for 1minute, 200% for 5 seconds	

LUMINOUS

Technical Specifications

Model	HYBRID TX 3.75kVA	HYBRID TX 5kVA
SYSTEM DATA		
Transfer Time	< 20 mS	
Protection	Under/Over voltage protection for Input/Output, Battery & Array; Reverse polarity protection for Array & Battery; Protection for Output Overload, Short circuit and Over Temperature; MCB & Surge protection at Grid/DG Input, Battery, Wrong Wiring, Low Battery, Anti-Islanding Protection	
Display Parameters	"Voltage/Current: Array, Battery, Grid, Output; Day kWh, Cumulative kWh, Date, Time "	
Indications	Battery Charging/ Discharging, Grid Available, Grid Select, Solar Available, Inverter On, Load On, System on Battery, Low Battery Pre-alarm, Wrong Wiring, Short Circuit Trip, Fault LED Indicator (For Overload, Low Battery, Over Temperature)	
	"Battery type, Battery voltage (Boost, Float, Absorption), Priority (SGB/SBG/Solar Only/Grid Feed), Charging Current from Grid, Zero feed/Allow feed in GFM Current Settings"	
INTERFACE		
DC Connection	MC4 Connectors	
Connectivity	WiFi Dongle	
GENERAL		
Display / Indications	LCD Display (20*4) / LED Indications	
Dimensions (WxDxH in mm)	300 x 504 x 515	350x635x589
Net Weight (kg)	50 kg	64 kg
Mounting	Surface Mount	
Cooling	Air Cooling	
Enclosure Protection	IP21	
Galvanic Isolation	Inbuilt Isolation Transformer	
Operating Temperature	0°C - 45°C	

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.

2 Years Warranty

New Saving modes

Max Capacity Utilization

3 User Settable 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.

SOLAR

LUMINOUS

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)	60
NXG 1150e	150 Ah x 1	170Wp x 5 Nos.	5 (P)	100
NXG 1450e	150Ah x 1	170Wp x 6 Nos.	6 (P)	120
NXG 1850e	150 Ah x 2	550Wp x 3 Nos.	3 (P)	180
NXG 2350	150Ah x 2	550Wp x 4 Nos.	4 (P)	240

NXG Solar Inverter

Technical Specifications

Model Name	NXG 850e	NXG 1150e	NXG 1450e	NXG 1850e	NXG 2350
Nominal Battery Voltage (Vdc)	12V	12V	12V	24V	24V
Capacity (VA)	500VA	850VA	1100VA	1500VA	2000VA
Output Waveform	Sine Wave				
SOLAR PHOTOVOLTAIC INPUT					
Charge Controller Type	PWM				
Charge Controller Rating	30A	50A	60A	40A	55VA
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/VRLA				
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/VRLA				
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)	8.2 kg	11.8 kg	16.5 kg	17.1 kg	18.5 kg
Gross weight (Kg)	9.7 kg	13 kg	17.8 kg	18.5 kg	20 kg
Dimensions LxWxH (mm)	320x302x130 mm			320x275x150 mm	

Technical specifications are subject to change without prior notice.

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NXG PRO INVERTERS

With Proven MPPT Technology

NXG PRO is an intelligent solar inverter which comes with in-built MPPT technology helping in extracting 30% more power from solar panels.

2 Years Warranty

Compatible with both 12V & 24V Solar Panels

Max Capacity Utilization

3 User Settable 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.

SOLAR

LUMINOUS

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	550Wp x 2 Nos.	2(P)	120
NXG PRO 1KVA/24V	150 Ah x 2	550Wp x 2 Nos.	2 (P)	120

NXG Pro Solar Inverter

Technical Specifications

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

Technical specifications are subject to change without prior notice.

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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.

SOLAR

LUMINOUS

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	550Wp x 10 Nos.	2(S) 5 (P)	600

Solar NXE

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 Phases	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
UPS	
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 (WxDxH) [mm]	277 x 410 x 470
Net Weight (Kg)	44kg

Technical specifications are subject to change without prior notice.

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For more information

youtube/user/myluminousindia

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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.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar Charge Controller	DC Voltage	PV Panel Watt		
SCC 1206	@12V	110Wp x 1 No.s	1 (S)	10
SCC 1210	@12V	170Wp x 1 No.s	1 (S)	20
SCC 1210	@24V	335Wp x 1 No.s	1 (S)	40
SCC 1220	@12V	170Wp x 2 No.s	2 (P)	40
SCC 1220	@24V	335Wp x 2 No.s	2 (P)	80

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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.

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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 27O C	Length ± 3	Width ± 3	Height upto float top ±3	Dry Weight ±5%	Filled Weight ±5%	Electrolyte Volume ±5%
	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 12135H	12	135	502	191	440	30.5	59	23
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 12165H	12	165	502	191	440	36.5	63	21.4
LPTT 12180L	12	180	502	191	440	40	64	19.4
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

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Installation available

25 years* warranty

All India service

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