

LUMINOUS
Khushiyan ka ghar

30
YEARS
OF
LUMINOUS

Complete Solar Solutions

————— *Making the World a Better Place with Every Rooftop* —————

 **Solar**
Chalo India Bijli Banao

LUMINOUS

Luminous Power Technologies Pvt. Ltd.

Plot No. 150, Sector 44, Gurugram, Haryana - 122003
Tel.: +91-124-477 6700, E-Mail: care@luminousindia.com

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Solar Product Cat/180219

 **Solar**

PRODUCT CATALOGUE 2019

LUMINOUS



30 YEARS OF MAKING HOMES HAPPIER

With a legacy of over 30 years in powering households and empowering India, Luminous continues to challenge itself to exceed customers expectations and its true potential.



7 Factories



28 Sales Offices



60000+
Channel Network



70+ Mn Happy
Consumers



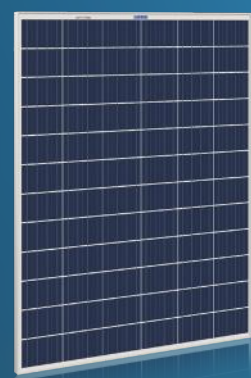
Expert
Craftsmanship



Top-of-the-line
Products

YEARS OF **30**
LUMINOUS

LUMINOUS



Monocrystalline Panels

335W



Polycrystalline Panels

40W - 325W



Cruze Combo

2KVA - 7.5KVA



NXG Inverter

300VA - 1500VA

WIDEST RANGE OF SOLAR POWER PRODUCTS



Shine Retrofit

12V - 120V



Charge Controller

12V - 24V



Regalia

900 VA - 1500 VA



NXT PCU

1kW - 10kW



NXi Grid Tie Inverter

1kW - 50kW



Solar C10 Rated Batteries

20 Ah - 200 Ah

LUMINOUS

ONE STOP SOLAR SOLUTIONS

Luminous is a global powerhouse as well as a local favourite in the solar solutions segment. Our best-in-class products and top-of-the-line workmanship, assure you of a hasslefree journey.

Home Solutions



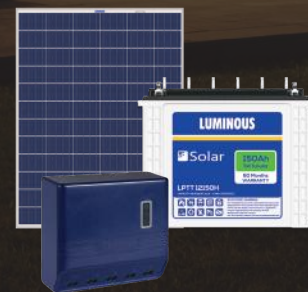
Solar Panel, NXG Inverters & Batteries

Home Upgrade* Solutions



Solar Panel, Shine Retrofit & Batteries

DC Solutions



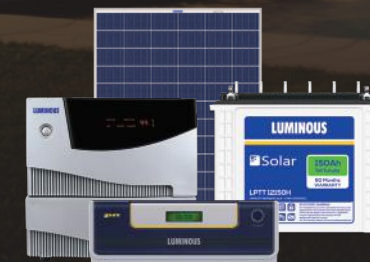
Solar Panel, Charge Controller & Batteries

High Capacity Solutions



Solar Panel, NXT PCU & Batteries

High Capacity Upgrade* Solutions



Solar Panel, Cruze+Shine Combo & Batteries

Grid-Tie Solutions



Solar Panel & Solar NXi Grid Tie Systems

*For upgrading existing power back up system.

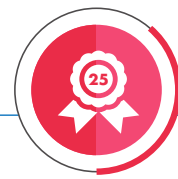
Solar

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PV PANELS

Designed For High Performance

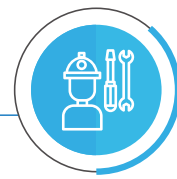
Luminous offers a range of both Monocrystalline and Polycrystalline PV modules. Ranging from 40W to 335W, our panels comply with IEC standards and are suitable for a wide range of applications.



25 Years
Performance Warranty



5 Years
Product Warranty



Robust
Mechanical Design



Excellent Low-light Performance

Built with high quality glass and solar cell surface coating, especially for performance in low-light conditions.



Resilience to Extreme Weather

The robust waterproof, corrosion and torsion resistant design offers protection against wind and snow.



PID Resistance Technology

Designed to eliminate power loss owing to stray currents

Advance EVA Encapsulation

Designed with multi layer EVA (ethyl vinyl acetate) encapsulation for better module protection.



Best in Class Efficiency

Innovative cell technology ensures optimum solar power generation providing high value for money.



IDEAL FOR

- ✓ Large scale utility systems
- ✓ Rooftop residential, commercial and industrial roof top installations
- ✓ Agricultural pumping applications

Electrical Parameters @ STC*

Model	LUM 1240	LUM 1260	LUM 1280	LUM 12105	LUM 12165	LUM 24325	LUM 24335
Cell Type	Poly	Poly	Poly	Poly	Poly	Poly	Mono
No. of Cells	36	36	36	36	36	72	72
Peak Power P _{Max} (Wp)	40	60	80	105	165	325	335
Rated Module Voltage (V)	12	12	12	12	12	24	24
Maximum Power Voltage V _{mp} (V)	18	18	18	18.05	18.65	38	38.44
Maximum Power Current I _{mp} (A)	2.23	3.34	4.4	5.82	8.85	8.55	8.71
Open Circuit Voltage V _{oc} (V)	22	22	22	22	22.84	45.5	46.44
Short Circuit Current I _{sc} (A)	2.42	3.64	4.8	6.28	9.55	9.07	9.41
Module Efficiency (%)	13.72%	14.10%	15.21%	15.14%	16.64%	16.60%	17.11%
Maximum System Voltage (V)	600V	600V	600V	600V	600V	1000V	1000V
Maximum Series Fuse Rating	12A	12A	12A	12A	20A	20A	20A

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

Mechanical Data

Module Dimensions (mm)	435x670	635x670	785x670	1035x670	1480x670	1976x991	1976x991
LxWxT	x34	x34	x34	x34	x34	x40	x40
Module Weight (kgs)	3.30	5.20	6.50	8.20	11.50	23.00	23.00
IP Rating	IP 65	IP 65	IP 65	IP 65	IP 65	IP 67	IP 67
Cable & Connectors	No cable and connectors		1000mm length cables		1000mm length cables, MC4 Compatible/MC4 Connectors		
Frame	Silver Anodized aluminium alloy						
Glass	3.2mm thick high transmission low iron tempered glass, AR coated						
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)						
Back Sheet	Composite Film						
Maximum Surface Load Capacity	5400 Pa (Pascals)						
Application Class	Class A (Safety Class II)						

Permissible Operating Conditions

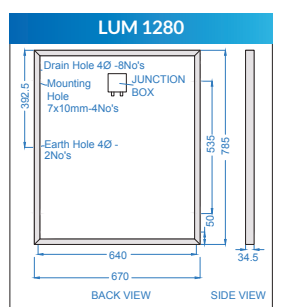
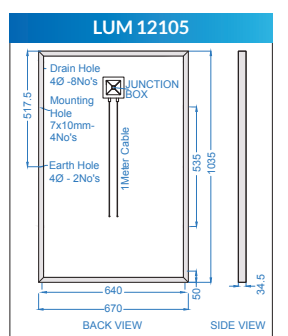
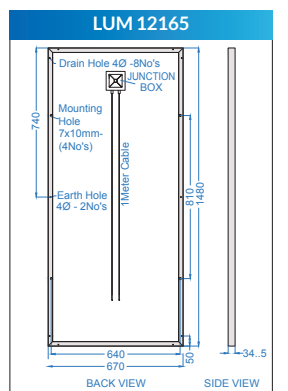
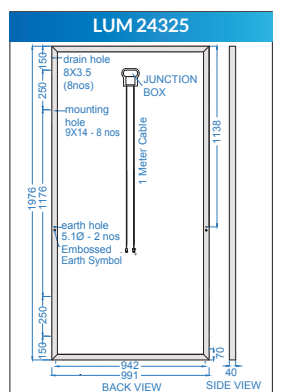
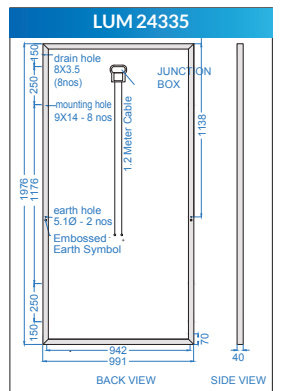
Operating Temperature	-40°C to +85°C
Temp coefficient of Open Circuit Voltage	-0.33%/°C
Temp coefficient of Short Circuit Current	0.03%/°C
Temp coefficient of Power	-0.41%/°C

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	IEC 61215 Ed2, IEC 61701, IEC 61730-1, IEC 61730-2

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

Solar Module Dimension



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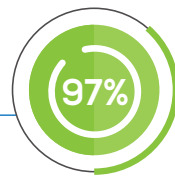
GRID TIE INVERTERS

Safe and Efficient

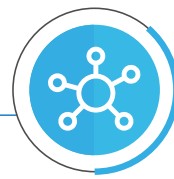
The NXi range from Luminous is available in single and three phase configurations. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities from 1kW to 50 kW.



5 Years
Warranty



> 97%
Efficiency



Connectivity
Options



MPPT

Maximum Power Point Tracking

MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.



IP65 Protection

Designed to work in tough weather conditions. Flawless operation despite dust, rain or extreme temperature variations



Remote Monitoring

Multiple modes of connectivity (GSM/Wi-fi) for remote monitoring enables proactive maintenance.

Anti-Islanding Protection

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



MNRE & IEC Compliance

Complies with MNRE recommended standards
IEC - 61683, IEC - 60068,
IEC - 61000, IEC - 61727,
IEC - 62116



Solar Estimation Chart

Solution	PV Panel Watt	No. of MPPT	Panel Connection Combination per MPPT (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS				
NXI 1kW	325Wp x 3 No.s	1	3 (S)	100
NXI 2kW	325Wp x 6 No.s	1	6 (S)	200
NXI 3kW	325Wp x 10 No.s	1	10 (S)	300
NXI 4kW	325Wp x 12 No.s	2	6 (S)	400
NXI 5kW	325Wp x 16 No.s	2	8 (S)	500
NXI 6kW	325Wp x 20 No.s	2	10 (S)	600
NXI 10kW	325Wp x 32 No.s	2	16 (S)	1000
NXI 15kW	325Wp x 48 No.s	2	12 (S) 2 (P)	1500
NXI 20kW	325Wp x 64 No.s	4	16 (S)	2000
NXI 25kW	325Wp x 84 No.s	4	21 (S)	2500
NXI 50kW	325Wp x 168 No.s	4	21 (S) 2 (P)	5000



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Single Phase

MODEL	Nxi 110	Nxi 120	Nxi 130	Nxi 140	Nxi 150
Input DC					
Max. DC Input Power (kW)	1.2	2.3	3.5	4.6	5.8
Max. DC Input Voltage (V)	600				
Start-up Voltage [V]	60	90	120		
MPPT Voltage range (V)	50-500	80 - 500		100 - 500	
Max input current per MPPT (A)	11A		11A+11A		
Number of MPPT	1		2		
Max Input Strings Number	1		2		
Output (AC)					
Rated output power (kW)	1	2	3	4	5
Max. output power [kW]	1.1	2.2	3.3	4.4	5
Max. output Current [A]	5.2	10.5	15.7	21	25
Grid voltage range (V)	160-285				
Grid Frequency range (Hz)	50/60 Hz				
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%	97.5%		> 98.1%	
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				
Interface					
DC Connection	MC4 Connectors				
Display	LCD 2X 20 Z				
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 Convention				
Relative Humidity	0 - 100 %				
Max. Operational Altitude	4000m				
Noise [dBA]	<20dBA	<30dba	<30 dba		
Designed Lifetime	> 20 years				
Ingress Protection	IP65				
Dimensions (W*H*D) [mm]	310W*373H*160D(mm)			310W *543H *160D	
Net weight (Kg)	7.4	7.7	11.5		
Standards					
Safety/EMC	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3				

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

Three Phase

MODEL	Nxi 360	Nxi 310	Nxi 315	Nxi 320	Nxi 325	Nxi 350
Input DC						
Max. DC Input Power (kW)	6.9	11.5	16.5	23	28	55
Max. DC Input Voltage (V)	1000					1100
Start-up Voltage [V]	250		350			200
MPPT Voltage range (V)	200 - 800					200 - 1000
Max input current per MPPT (A)	15A + 15A	18A+18A		18A+18A+18A +18A		28.5A+28.5A+28.5A+28.5A
Number of MPPT	2		4			4
Max Input Strings Number	2	4		8		12
Output (AC)						
Rated output power (kW)	6	10	15	20	25	50
Max. output power [kW]	6.6	11	15	22	27.5	55
Max. output Current [A]	10	16.7	25	33.3	41.7	83.3
Grid voltage range (V)	313 - 470			304-460		
Grid Frequency range (Hz)	50/60 Hz					
Power Factor (at rated output power)	0.8 ...1... 0.8					
Total harmonic distortion [THDi]	<3%					
Feed-in phase/connection phase	Three Phase					
Efficiency						
Max. Efficiency	98.20%	98.30%	98.60%		98.80%	
MPPT Efficiency	99.50%			99.90%		
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					
Interface						
DC Connection	MC4 Connectors					
Display	LCD 2X 20Z	7" Color 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 Convention			Intelligent redundant fan cooling		
Relative Humidity	0 to 100%					
Max. Operational Altitude	4000m					
Noise [dBA]	<30 dBA					
Designed Lifetime	> 20 years					
Ingress Protection	IP65					
Dimensions (W*H*D) [mm]	430W*613H*269D		530W*700H*356.5D		630W *700H *357D	
Net weight (Kg)	29	30	57.2	58.2	63	
Standards						
Safety/EMC	EN61000 - 6 - 1: 2007, EN61000 - 6 - 3: 2007, IEC 62109-1, 62109-2: AS3100					

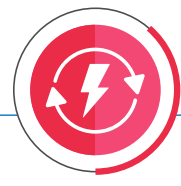
* Check availability of GSM or wifi dongle before ordering.
Technical specifications are subject to change without prior notice.

LUMINOUS

POWER CONDITIONING UNIT

High Capacity & Control

The NXT range of PCUs is the ideal solution for Off-grid applications. Designed to offer control, the PCU intelligently optimizes battery charging and power to load among Solar, Battery and Grid power. Available from 1kW to 10kW. Warranty: 2 Years



High Efficiency MPPT



User Controlled Settings



Long Power backup



Priority Settings

Priority settings allow the user to choose among reduced grid dependency & energy savings, enhanced backup and autonomy from grid.



User-friendly Display

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



Maximum Power Point Tracking

MPPTs extract 30% more power as compared to UPS with PWM charge controllers.



Guaranteed Safety

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

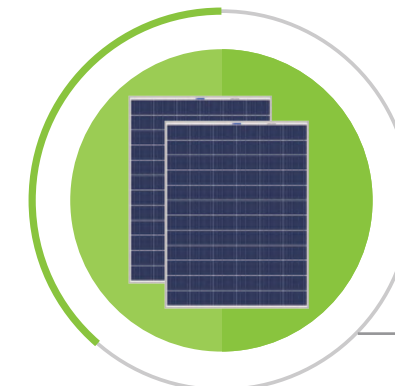


MNRE & IEC Compliance

Complies with MNRE recommended standards IEC – 61683, IEC – 60068 – 1,2,14,30, IEC – 60529

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	Solar Battery	PV Panel Watt		
NXT 1kW	75 Ah x 4	325Wp x 3 No.s	3 (S)	100
NXT 2kW	150 Ah x 4	325Wp x 6 No.s	3 (S) 2 (P)	200
NXT 3kW	200 Ah x 4	325Wp x 9 No.s	3 (S) 3 (P)	300
NXT 6kW	200 Ah x 8	325Wp x 20 No.s	4 (S) 5 (P)	600
NXT 7.5kW	200 Ah x 10	325Wp x 24 No.s	6 (S) 4 (P)	750
NXT 10kW	200 Ah x 10	325Wp x 30 No.s	6 (S) 5 (P)	1000



PV Panel

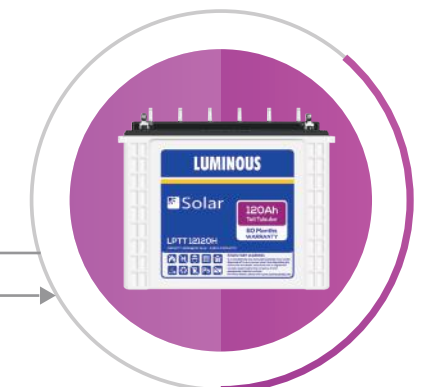


Main Supply

NXT PCU



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Solar Battery



Load

LUMINOUS

Technical Specifications

Model Name	NXT 1kW	NXT 2kW	NXT 3kW	NXT 6kW	NXT 7.5kW	NXT 10kW
Capacity (kW)	1	2	3	6	7.5	10
Nominal Battery Voltage (Vdc)	48V		96V		120V	
Output Waveform	Sine Wave					
SOLAR PHOTOVOLTAIC INPUT						
Type of Charger	MPPT					
Maximum PV power (kW)	1.1	2.2	3.3	6.6	8.25	11
Input Voltage range (Voc)	80 - 165		160-240		180-300	
Input Voltage range (Vmp)	65 - 130		120-210		150-240	
GRID INPUT						
Input Supply Phases	Single Phase					
Nominal Voltage & Voltage range	230V AC (185V - 265V)					
Nominal Frequency & Range	50 Hz (±3 Hz)					
BATTERY						
Battery recharge current range from Grid Side (A)	0-12	0-24	0-30	0-30	0-35	0-45
Battery recharge current range from Array Side (A)	0-20	0-40	0-60	0-60	0-65	0-80
Charging Stages	Float, Bulk, Boost			Boost, Absorption, Float		
UPS						
Switching Element	MOSFET			IGBT		
Control	32 Bit DSP controlled					
Nominal Output Vac	230V ± 1% , Single Phase					
Output waveform	Pure Sine Wave					
Nominal Frequency	50 Hz (±0.5 Hz)					
Power Factor	0.8 lag to 0.8 lead					
Nominal Output Current (A)	4.3	8.5	13	26	33	44
Overload at nominal output voltage	110% for 10 Minutes, 200% for 5 Secs					
SYSTEM DATA						
Noise @ 1 meter (dBA ± 2dBA)	<58dBA			<62dBA		
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, Array Path and PCU O/P					
Display Parameters	Voltage/Current: Array, Battery, Grid, Output; Day kWh, Cumulative kWh, Date, Time					
Indications	Battery Charging/ Discharging, Grid ON, Load ON, UPS ON, Array ON, Fault LED Indicator (For Overload, Low Battery, Over Temperature),					
Setting	Battery type, Battery voltage (Boost & Float), Priority (SGB/SBG), Charging Current from Grid					
ENVIRONMENT						
IP Protection Level	IP-21					
Operating Temperature (°C)	0-50 °C without any degradation					
Max. Relative humidity @ 25°C	Up to 95% (non-condensing)					
Max. Altitude above sea level without de-rating (m)	1000 m					
STANDARD COMPLIANCE						
Certifications	IEC 61683, IEC 60068-2(1,2 14, 30)					
GENERAL						
Dimension (W*D*H) [mm]	300x504x515		350x635x589		400x575x783	
Net Weight (Kg)	30	37	50	76.3	125	150

Technical specifications are subject to change without prior notice.

For more information



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LUMINOUS

HIGH CAPACITY COMBO

Solar solutions with tough build

Cruze & Shine combination runs heavy loads with extreme ease and efficiency.

Available from 2 KVA to 7.5 KVA

Warranty: 2 Years



Ideal For Heavy Loads



User Friendly Display



Run Heavy Loads

Runs heavy loads like Geyser, Petrol Pumps, Photocopiers, Dental Chairs etc.



Intuitive Display

Easy to understand display shows the status of mains availability, battery charging, battery level, etc.



Pure Sine Wave Output

Ensures noiseless operation and safety of connected appliances.

ABCC Technology

Adaptive Battery Charging Control System (ABCC) ensures faster battery charging and enhances battery life by 70%.

Guaranteed Safety

Comprehensive protection against short-circuit, reverse polarity, battery over-charge and battery deep-discharge.

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	Solar Battery	PV Panel Watt		
Cruze 2KVA + Shine 3650	150 Ah x 2	325Wp x 5 No.s	1 (S) 5 (P)	170
Cruze 2.5KVA + Shine 3650	150 Ah x 3	160Wp x 15 No.s	3 (S) 5 (P)	260
Cruze 3.5KVA + Shine 4850	150 Ah x 4	325Wp x 8 No.s	2 (S) 4 (P)	280
Cruze 5.5KVA + Shine 9650	150 Ah x 8	325Wp x 12 No.s	4 (S) 3 (P)	560
Cruze 7.5KVA + Shine 12050	150 Ah x 10	325Wp x 20 No.s	5 (S) 4 (P)	700

Technical Specifications

Model Name	Cruze 2 KVA+Shine 3650	Cruze 2.5 KVA+Shine 3650	Cruze 3.5 KVA+ Shine 4850	Cruze 5.5 KVA+ Shine 9650	Cruze 7.5 KVA+ Shine 12050	
Capacity	2000VA	2500VA	3500VA	5500VA	7500VA	
Nominal Battery Voltage (Vdc)	24V	36V	48V	96V	120V	
Output Waveform	Sine Wave					
SOLAR PHOTOVOLTAIC INPUT						
Charge Controller Type	PWM					
Charge Controller Rating	50 Amp/24V	50 Amp/36V	50 Amp/48V	50 Amp/96V	50 Amp/120V	
Maximum PV Power	Upto 1700Wp	Upto 2500Wp	Upto 2800Wp	Upto 5600Wp	Upto 7000Wp	
Input Voltage range (Voc)	38-55	57-75	70-92	140-185	170-230	
Input Voltage range (Vmp)	34-39	51-57	60-77	119-153	145-191	
GRID INPUT						
Operating Voltage Range	100V-285V	100V-285V	100V-285V	140V-280V	140V-280V	
Max Grid Charging Current	21Amp	21Amp	21 Amp	12Amp	12Amp	
PROTECTIONS						
Protections	Cruze	Overload, Short-circuit, Battery Deep Discharge Protection, & MCB Protection				
	Shine	Reverse polarity , reverse current , Over-voltage, Over-temperature protections				
DISPLAY INDICATIONS						
Indications	Cruze	Mains On, UPS On, UPS Overload, Battery Low, Battery Charging, Level of Battery Charge				
	Shine	PV & Grid status, Charging source, Battery type, Battery voltage, Savings				
GENERAL						
Net Weight (Kg)	Cruze	22.25	22.25	31.9	59.2	64
	Shine	3	3	4.5	5.7	5.7
Dimensions LxWxH (mm)	Cruze	280x305x280	280x305x280	280x305x380	588x341x347	600x350x360
	Shine	280x129x205	280x129x205	375x315x135	375x315x135	375x315x135

Technical specifications are subject to change without prior notice.

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SOLAR INVERTERS

The Solar Ready UPS

NXG range is a hybrid UPS 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. Available from 300VA to 1500VA.



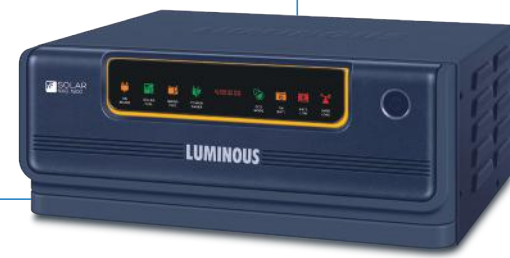
2 Years
Warranty



Maximized Solar
Usage



User Defined
Settings



ISOT Technology

Intelligent Solar Optimization Technique (ISOT) maximizes solar energy usage in both backup and charging mode of operation.



Fast Charging

i-charge technology enables charging of batteries in a short time. This is a user defined setting.



ECO and UPS Mode

Choice between Eco mode that conserves battery (Ideal for low voltage areas) and UPS mode (Ideal for computer loads)

Safety and Protection

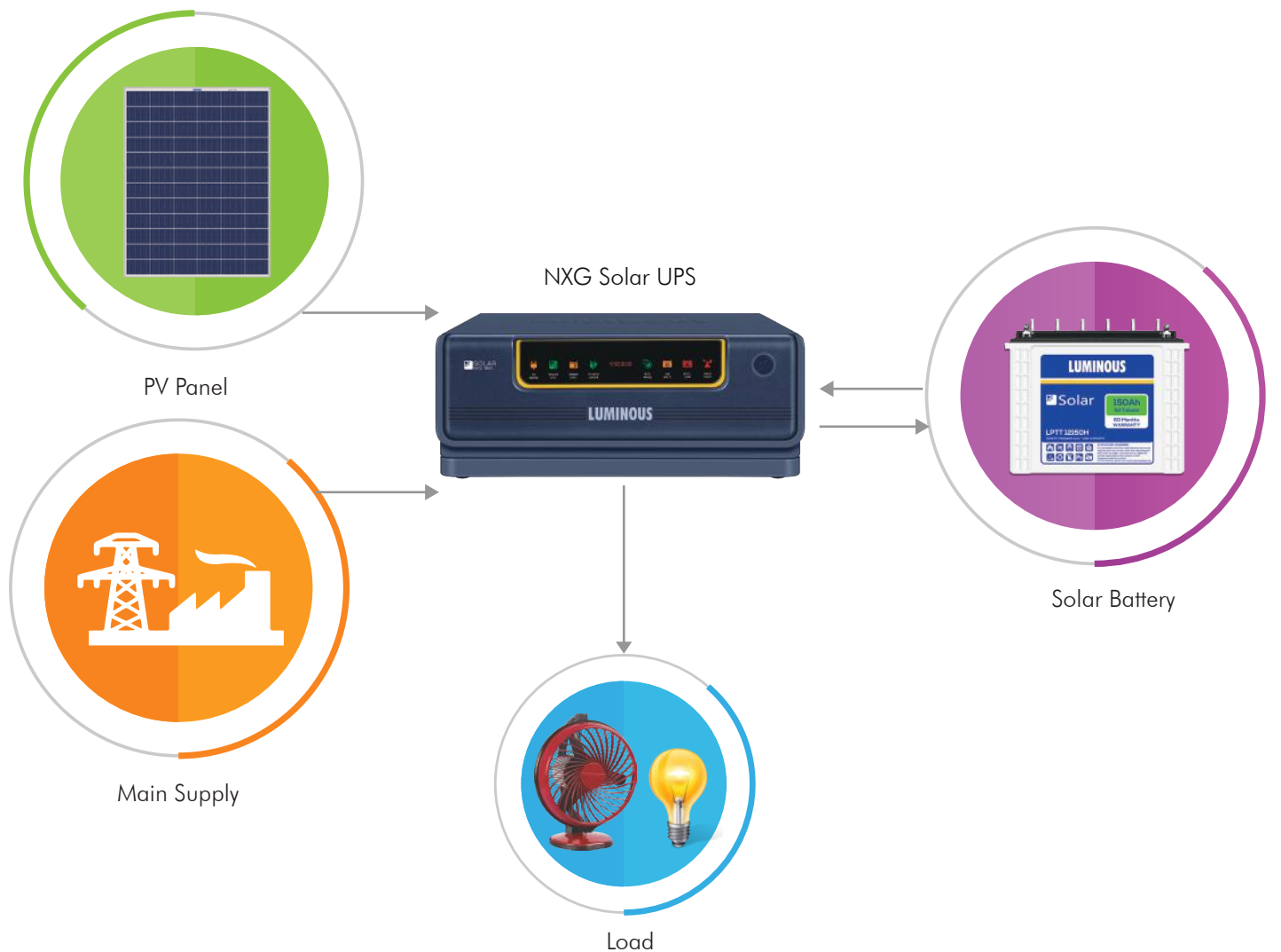
In-built protection against deep discharge, overcharge, excessive current and short-circuit.

Pure Sine Wave Output

Ensures noiseless operation and safety of connected appliances.

Solar Estimation Chart

Solar UPS	Solar Battery	PV Panel Watt	Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
NXG 350	120 Ah x 1	165 Wp x 1 No.s	1 (S)	20
NXG 750	120 Ah x 1	165 Wp x 2 No.s	2 (P)	40
NXG 1100	150 Ah x 1	165 Wp x 4 No.s	4 (P)	80
NXG 1400	150 Ah x 1	165 Wp x 4 No.s	4 (P)	80
NXG 1800	150 Ah x 2	325 Wp x 3 No.s	3 (P)	100



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Technical Specifications

Model Name	NXG 350	NXG 750	NXG 1100	NXG 1400	NXG 1800
Capacity (VA)	300VA	500VA	850VA	1100VA	1500VA
Nominal Battery Voltage (Vdc)	12V	12V	12V	12V	24V
Output Waveform	Square Wave	Sine Wave			
SOLAR PHOTOVOLTAIC INPUT					
Charge Controller Type	PWM				
Charge Controller Rating	10Amp/12V	20Amp/12V	40Amp/12V	40Amp/12V	40Amp/24V
Maximum PV Power	12V upto 200 Wp	12V upto 400 Wp	12V upto 1000 Wp		24V upto 1000 Wp
Input Voltage range (Voc)	19-25	19-25	19-25	19-25	38-50
Input Voltage range (Vmp)	17-19	17-19	17-19	17-19	34-39
GRID INPUT					
Operating Voltage Range	90V-290V	100V-290V			
GRID OUTPUT					
No Load Output	230±5V	230±10V	220±5V		
Output frequency battery mode	50Hz±0.5Hz				
No load current (UPS switch off)	< 65mA				
UPS efficiency	≥ 80%*				≥ 85%*
BATTERY					
Battery charging through Mains	Main Charge LED Green	Mains LED steady + Mains charge LED steady			
Battery charging through Mains + Solar	Main charge LED Orange	Mains LED steady+Mains charge LED steady+solar CHG LED steady/Blinking			
Battery charging through Solar	Main Charge LED Red	Solar CHG LED Blinking + Mains charge LED OFF			
Low battery pre-alarm indication	Battery low LED blinking				
Solar optimization after battery fully charged	NA	ON mains+power save LED on+ON battery LED on+solar charge LED blinking			
PROTECTIONS					
Over load	100% % for 5 Sec	110% - 150% for 30 Sec.	110% for 4.5 Min.	110% for 30 Sec.	110% for 4.5 Min.
	200%- Short circuit	150%-180% for 10 Sec.	120% for 1 Min	120% for 5 Sec.	120% for 1 Min
		200%- Short circuit	150% for 10 Sec.	200% for 1 Sec.	150% for 10 Sec.
		NA	200% for 1 Sec.		200% for 1 Sec.
Overload shutdown indication in UPS mode	Overload LED steady				
Overload pre-alarm indication in UPS mode	NA	Overload LED slow blinking			
Short circuit indication in UPS mode	Overload LED fast blinking				
Protections	Short circuit, overload, high temperature, battery low cut off				
Indications	Switch on, Battery Charging;mains, solar, mains+solar; Overload, Short circuit, i-charge#				
Additional features	USB Charging	NA			
DISPLAY INDICATIONS					
Switch on indication	UPS / ECO LED ON	Switch LED ON			
UPS on indication	UPS / ECO LED ON	Battery LED ON			
Internal fault	NA	NA	Service assistance LED on		
Mains on indication	LED Green Mains charge	Mains LED steady			
Mains charging current selection charge	NA	6A (i-Charge Off)/ 10A (i-Charge ON)	10A (i-Chg OFF)/15A (i-Chg ON)		
DC overload indication	NA	NA	(Mains LED+overload) blinking	NA	
GENERAL					
Net weight (Kg)	4.6Kg	9.3Kg	11.5Kg	14.6Kg	15.66Kg
Gross weight (Kg)	5.3Kg	10.7Kg	12.7Kg	16.03Kg	16.90Kg
Dimensions LxWxH (mm)	232x123x196	375X315X135	375X315X135	375X315X150	375X315X150

*Peak Efficiency

Technical specifications are subject to change without prior notice.

#Not applicable for NXG 350 *Not applicable for NXG 350, NXG 750

For more information



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RETROFIT

Smart upgrade to Solar

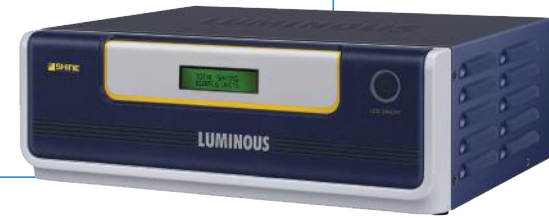
Shine Retrofit is a smart upgrade that converts existing inverter into solar inverter without any change in existing wiring. Ideal for small to large systems <10KVA



Solar Optimization



User Friendly Display



Solar Optimization Technique

Solar optimization technique extracts maximum power by intelligently prioritizing solar over grid.



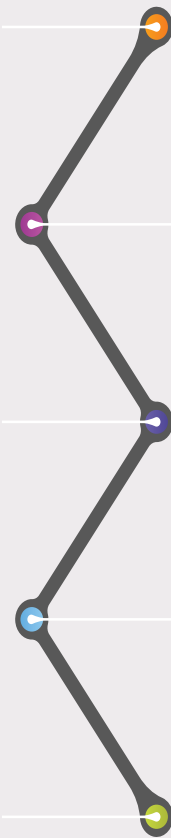
LCD Display

User friendly displays communicates information like battery Charging Status, Charging Source, Total unit savings etc.



Warranty

1 Year warranty



Four Stage Charging

4-stage smart charging ensures fast, safe & efficient charging and longer battery life.



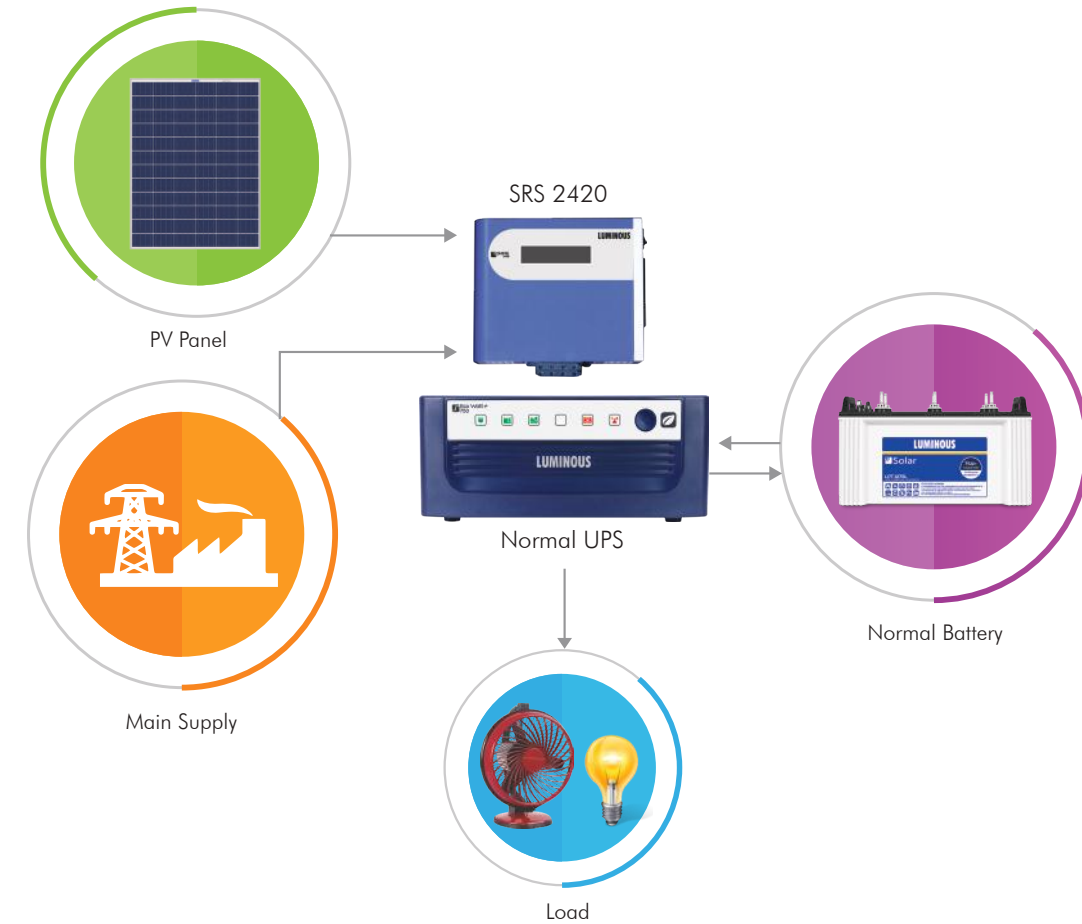
MCB Protection

World class MCB ensures your UPS and connected loads stay protected from short circuits.



Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	Solar Retrofit	PV Panel Watt		
12VUPS	SHINE 1220	165Wp x 2 No.s	2 (P)	40
24V UPS	SHINE 2420	325Wp x 2 No.s	2 (P)	80
24V UPS	SHINE 3650	325Wp x 5 No.s	5 (P)	200
36V UPS	SHINE 3650	165Wp x 15 No.s	3 (S) 5 (P)	300
48V UPS	SHINE 4850	325Wp x 8 No.s	2 (S) 4 (P)	300
96V UPS	SHINE 9650	325Wp x 16 No.s	4 (S) 4 (P)	600
120V UPS	SHINE 12050	325Wp x 20 No.s	5 (S) 4 (P)	700



Technical Specifications

Model Name	Shine 1220	Shine 2420	Shine 3650	Shine 4850	Shine 9650	Shine 12050
Charge Controller Type	PWM					
Charge Controller Rating	20A @12V	20A @12V/24V	50A@24V/36V	50A @48V	50A @96V	50A @120V
Maximum PV Power	100Wp-400Wp @ 12V	100Wp-400Wp @ 12V 200Wp-800Wp @24V	250Wp-1700Wp @ 24V 375Wp-2500Wp @36V	Upto 2800 Wp	Upto 5600 Wp	Upto 7000 Wp
Input Voltage range (Voc)	17-25	17-25 @ 12V, 36-50 @ 24V	38-55 @ 24V, 57-75 @ 36V	70-92	140-185	170-230
Input Voltage range (Vmp)	15-21	15-21 @ 12V, 31-39 @ 24V	34-39 @ 24V, 51-57 @ 36V	60-77	119-153	145-191
Operating temperature range	0°C to + 45°C	0°C to + 45°C	0°C to 50°C	0°C to + 45°C	0°C to + 45°C	0°C to + 45°C
Power connection	30A Terminal Block	30A Terminal Block	65A Terminal Block	60A Terminal Block		
Dimension (mm)	178x71x159		280x129x205	375x315x135		
Wire size	6 Sq. mm	6 Sq. mm	10 Sq. mm	16 Sq. mm		
Weight (kg)	1.2	1.2	3	4.5	5.7	5.7

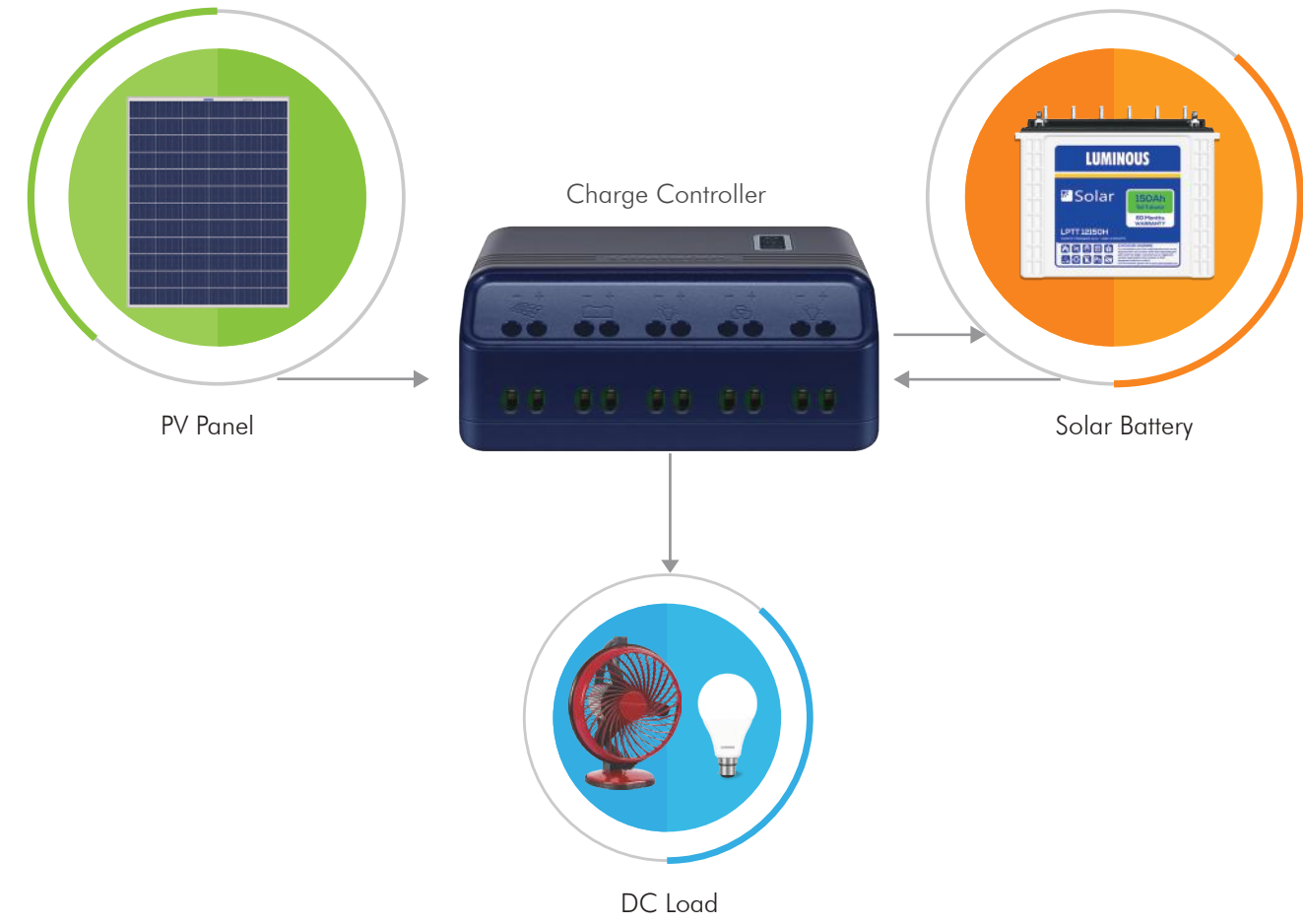
Technical specifications are subject to change without prior notice.

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CHARGE CONTROLLER

Easy upgrade to Solar

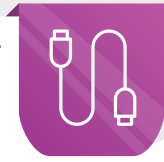
Luminous Charge controllers provide an easy upgrade to solar for existing users of DC loads.



Protection Against Over-Charge 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	105Wp x 1 No.s	1 (S)	10
SCC 1210	@12V	165Wp x 1 No.s	1 (S)	20
SCC 1210	@24V	325Wp x 1 No.s	1 (S)	40
SCC 1220	@12V	165Wp x 2 No.s	2 (P)	40
SCC 1220	@24V	325Wp x 2 No.s	2 (P)	80

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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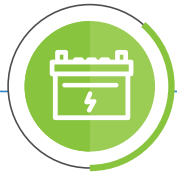
SOLAR BATTERY

Power of Performance

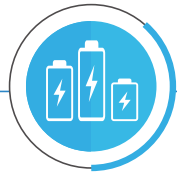
Luminous Solar Batteries are C10 rated deep cycle batteries specially designed for longer back up. Range Available - LMLA Tubular 20Ah to 200 Ah



Upto 5 Years
Warranty



Tubular Technology
for longer life



Rugged
Performance



UNMATCHED CUSTOMER SERVICE

Prompt and continuous support to keep your solar power generation system running. Our service in 300 cities trained professional 24x7 helpline make us the most powerful brand in India.



Very Low Maintenance

Topping up frequency :
Once in 8 to 10 months



Long Design Life

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

High Temperature
Performance
Can handle extreme
weather conditions



Technical Specifications

Model Name	Nominal Voltage	C10 capacity upto 10.5V 27°C	Length ± 3	Width ± 3	Height upto float top ± 3	Dry Weight ± 3%	Filled Weight ± 3%	Electrolyte Volume ± 5%
	V	Ah	mm	mm	mm	Kg	Kg	Litre
LPT1220L	12	20	260	172	248	7.5	12.8	4.4
LPT1240H	12	40	412	173	267	13.8	25.2	9.4
LPT1260H	12	60	410	174	305	18.5	31.8	10.9
LPT1280H	12	80	505	220	277	24.0	38.6	12.0
LPTT12100H	12	100	502	191	440	26.1	52.8	22.0
LPTT12120H	12	120	502	191	440	28.8	53.3	22.0
LPTT12150H	12	150	502	191	440	34.8	59.6	20.4
LPTT12200L	12	200	502	191	440	43.9	67.9	19.8

Technical specifications are subject to change without prior notice.

*STC - Standard Test Conditions



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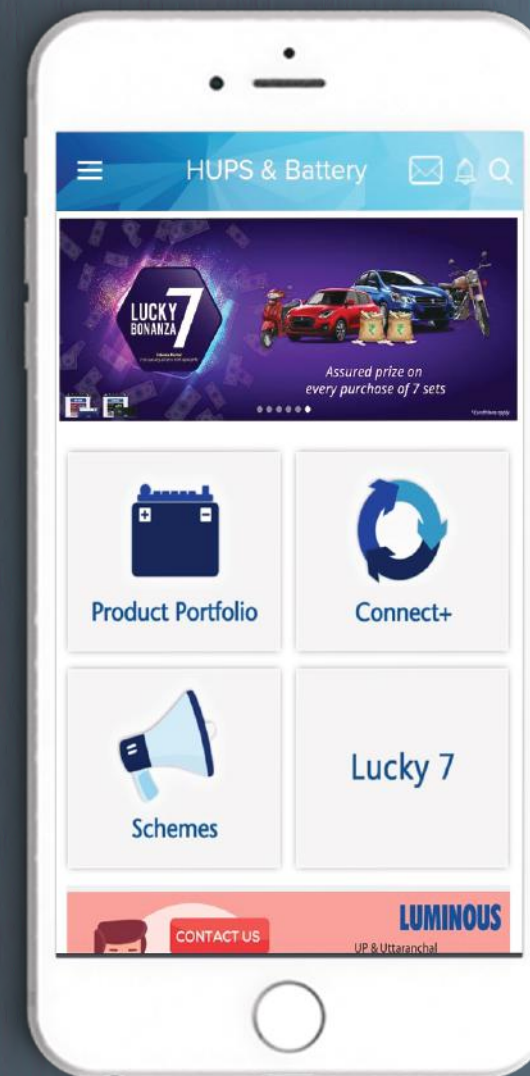
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