

LUMINOUS



Widest Range of
**POWER BACK UP &
SOLAR SOLUTION**

BATTERIES | INVERTERS | SOLAR



2025

www.luminous-global.com

AT A GLANCE

Luminous Power Technologies Pvt. Ltd. is one of the leading Indian electrical company, having extensive interests in delivering reliable power back-up solutions. Since its inception in 1988 with a very small base, this company has grown and become one of the largest power back-up groups with strong footprints in more than 40 countries in Indian Sub Continent, Middle East, Africa & South East Asia. Luminous is offering uninterruptible and alternate power solutions to the customers that make their life comfortable and efficient.

Luminous has been awarded with Superbrands status every year since 2011-2012 and is thoroughly committed to provide access to energy through innovative a customised power solutions.





LUMINOUS

WITH PRESENCE IN
40+ COUNTRIES,
WE BRING SMILES TO OVER
11 MILLION FAMILIES

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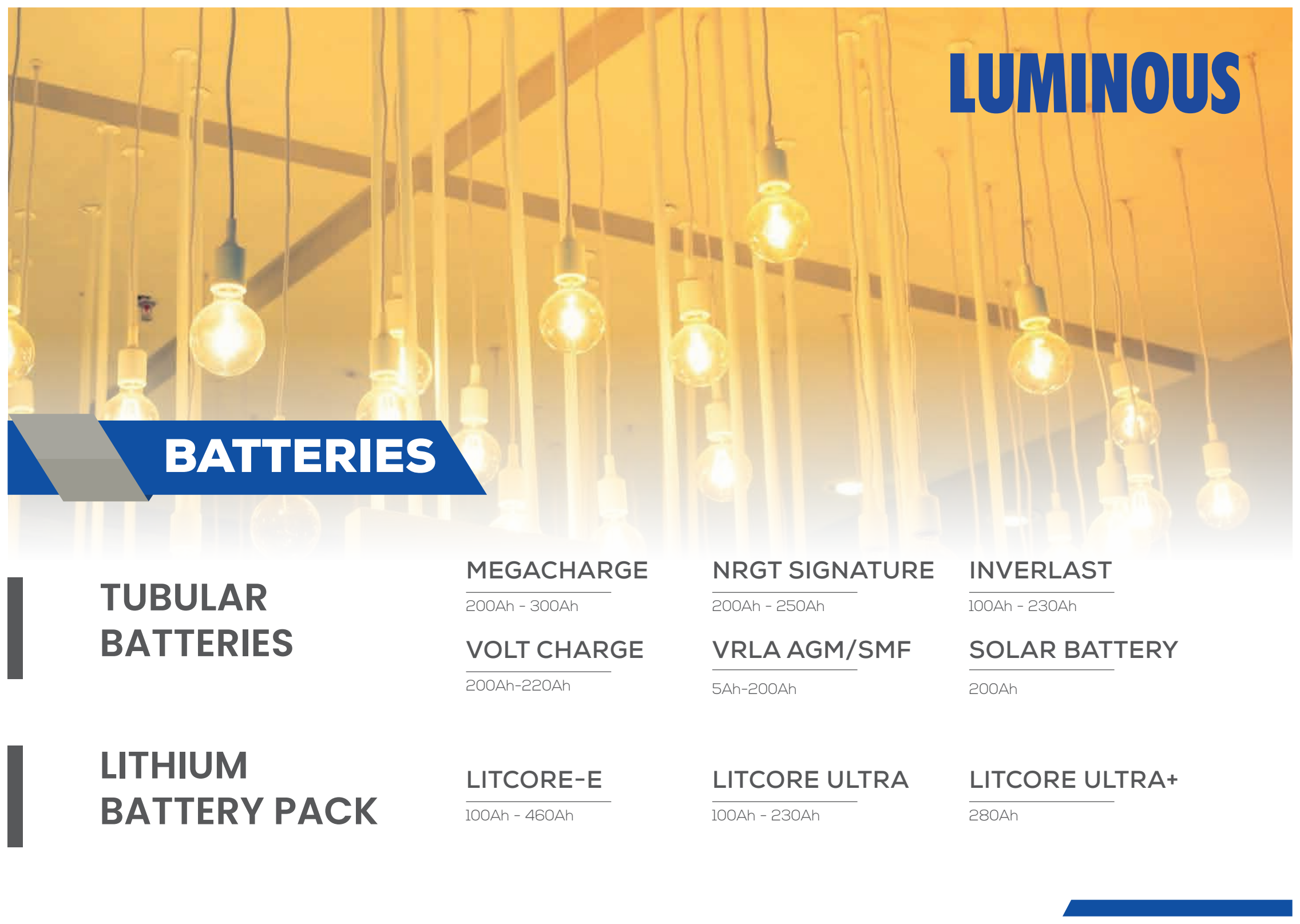
POWER BACK UP

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LUMINOUS

BATTERIES

TUBULAR BATTERIES

MEGACHARGE

200Ah - 300Ah

VOLT CHARGE

200Ah-220Ah

NRGT SIGNATURE

200Ah - 250Ah

VRLA AGM/SMF

5Ah-200Ah

INVERLAST

100Ah - 230Ah

SOLAR BATTERY

200Ah

LITHIUM BATTERY PACK

LITCORE-E

100Ah - 460Ah

LITCORE ULTRA

100Ah - 230Ah

LITCORE ULTRA+

280Ah



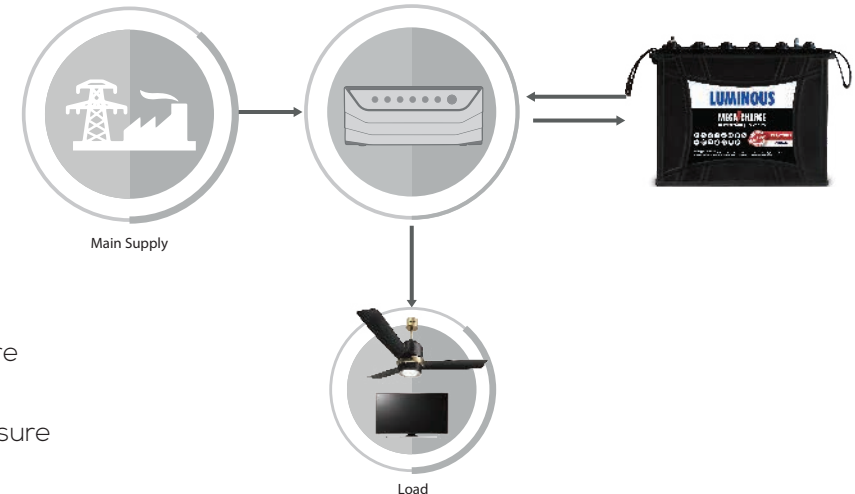
MEGACHARGE JUMBO TUBULAR BATTERY

Available Models
200Ah - 300Ah

Technical Specifications

Model No.	MEG200TT	MEG240TT	MEG300TT
Nominal Voltage (V)	12		
Rated C20 Capacity at 25°C (Ah)	200	240	300
DIMENSION OF BATTERY			
Length mm (±3)	505		
Width mm (±3)	208		
Height up to Terminal (±3)	421		
WEIGHT			
Battery weight Kg (±5%)	68.50	71.5	81.5
Battery packed weight (±5%)	70.50	73.5	83.5
CHARGING CURRENT (BOOST MODE)			
Starting (Amp)	20.2	24.2	30.2
Finishing (Amp)	10.1	12.1	15.1
CHARGING CURRENT (TRICKLE MODE)			
Min (mA)	168	202	252
Max (mA)	672	806	1008

Schematic Representation



MEGACHARGE

Special Features:

- High performance positive plates made with Advanced Automatic wet filling process to ensure high surface area & consistent paste density throughout the plates.
- Spines made with Special alloy composition & HADI high pressure die casting machines to ensure defect free Casting with high corrosion resistance.
- Extra Tall & wide container to store 30% more electrolyte to ensure less frequent water topping
- Less electrical resistance, high oxidation resistance, high porosity, High charging efficiency
- Optimally porous ceramic level indicator suppress water loss & promote safety along with cleanliness reducing water topping frequency.
- Environment friendly and safer as it emits less fumes and absolutely low maintenance.

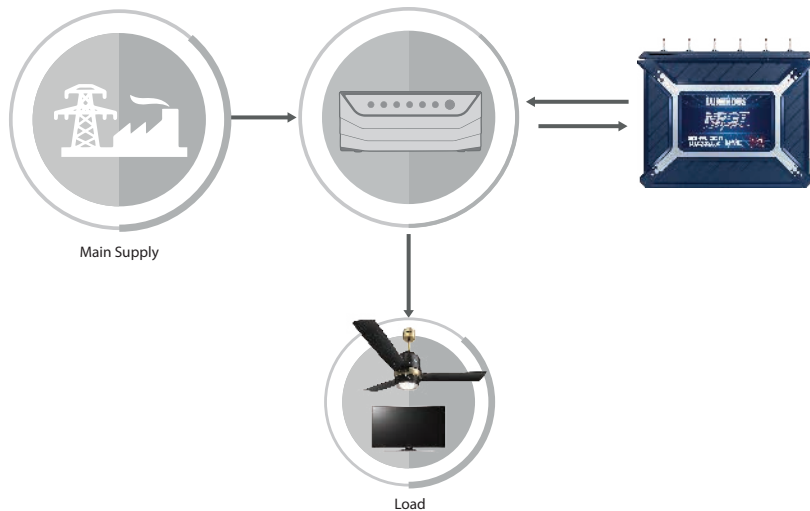
NRGT SIGNATURE TALL TUBULAR BATTERY

Available Models
200Ah - 250Ah

Technical Specifications

Model No.	NRGTS200	NRGTS230	NRGTS250
Nominal Voltage (V)	12	12	12
Rated C20 Capacity at 25°C (Ah)	200	230	250
DIMENSION OF BATTERY			
Length mm (±3)	504	504	504
Width mm (±3)	186	186	186
Height up to Terminal (±3)	426	426	426
WEIGHT			
Battery weight Kg (±5%)	62	67	70.50
Battery packed weight (±5%)	64.5	69.5	73
CHARGING CURRENT (BOOST MODE)			
Starting (Amp)	20.2	22.2	25.2
Finishing (Amp)	10.1	11.1	12.6
CHARGING CURRENT (TRICKLE MODE)			
Min (mA)	168	185	210
Max (mA)	672	739	840

Schematic Representation



ARMOR DESIGN FOR
RUGGED CASING



EASY MAINTENANCE
WITH LEVEL INDICATORS



CONICAL COLLAR
FOR EASY TOP UP

NRGT SIGNATURE

Special Features:

- A robust container design enhances safety, while embedded terminals improve strength and electrical conductivity
- Battery containers have been designed with a tray cavity on the lid with conical collar around the vent holes for easy top up to avoid spillage.
- Spines are made from a special alloy and cast using HADI high-pressure die-casting machines, ensuring defect-free construction and high corrosion resistance
- Environment friendly and safe as it emits less fumes and easy to maintain.
- Made with ultra high-density proprietary UHD (LMax) paste for long life at high-temperature operation.



FACTORY CHARGED BATTERY
IN READY TO USE CONDITION



EASY MAINTENANCE
WITH LEVEL INDICATORS



RUGGED
CONTAINER

INVERLAST

Special Features:

- Tall containers to store 30% more electrolyte to ensure less frequent water topping
- The tubular plate construction ensures that positive active material is distributed uniformly for extremely long life and superior performance.
- High performance positive plates are made with an advanced automatic wet filling process to ensure high surface area and consistent paste density throughout the plates.
- Optimally porous ceramic level indicator suppresses water loss & promote safety along with cleanliness.
- Extremely high purity and a corrosion-resistant proprietary spine alloy composition ensure longer battery service life.

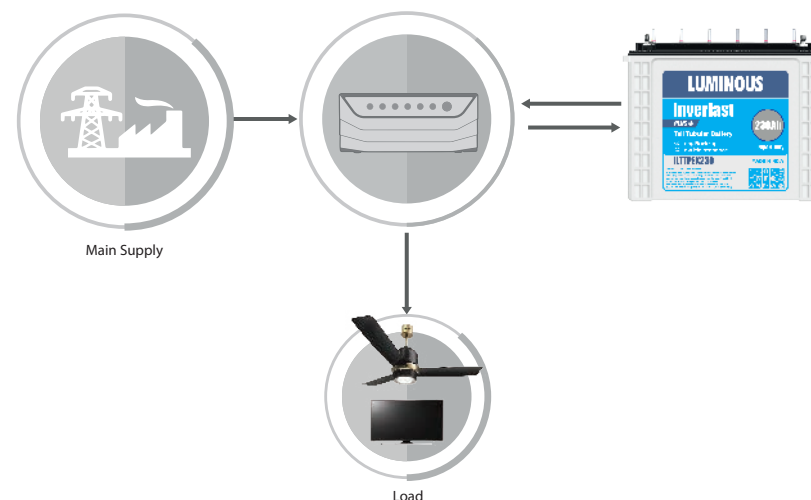
INVERLAST TALL TUBULAR BATTERY

Available Models
100Ah-230Ah

Technical Specifications

Model No.	ILSTEX100	ILTTEX150	ILTTEX200	ILTTPEX230
Nominal Voltage (V)	12	12	12	12
Rated C20 Capacity at 25°C (Ah)	100	150	200	230
DIMENSION OF BATTERY				
Length mm (±3)	505	502	502	502
Width mm (±3)	220	191	191	191
Height up to Terminal (±3)	285	415	415	415
WEIGHT				
Battery weight Kg (±5%)	39.00	53	60.5	62.5
Battery packed weight (±5%)	41.00	55.5	63.00	65
CHARGING CURRENT (BOOST MODE)				
Starting (Amp)	10.1	15.1	20.2	23.2
Finishing (Amp)	5.0	7.6	10.1	11.6
CHARGING CURRENT (TRICKLE MODE)				
Min (mA)	84	126	168	193
Max (mA)	336	504	672	773

Schematic Representation



Technical specifications are subject to change without prior notice.

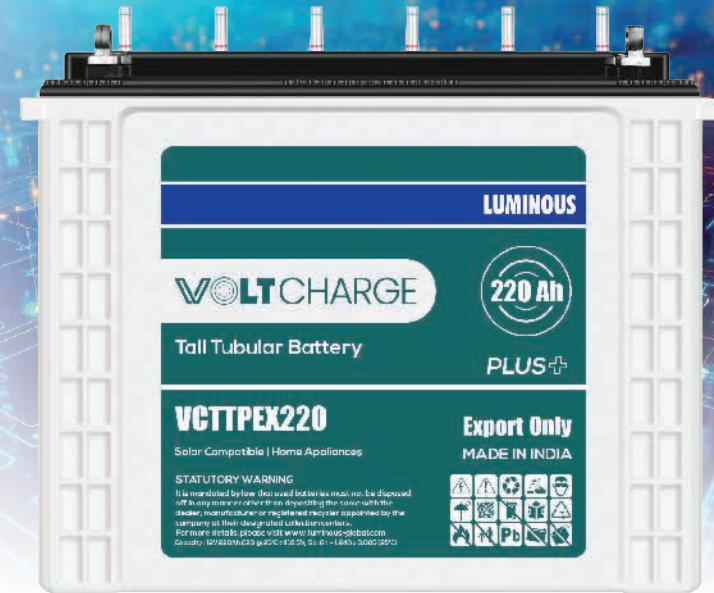
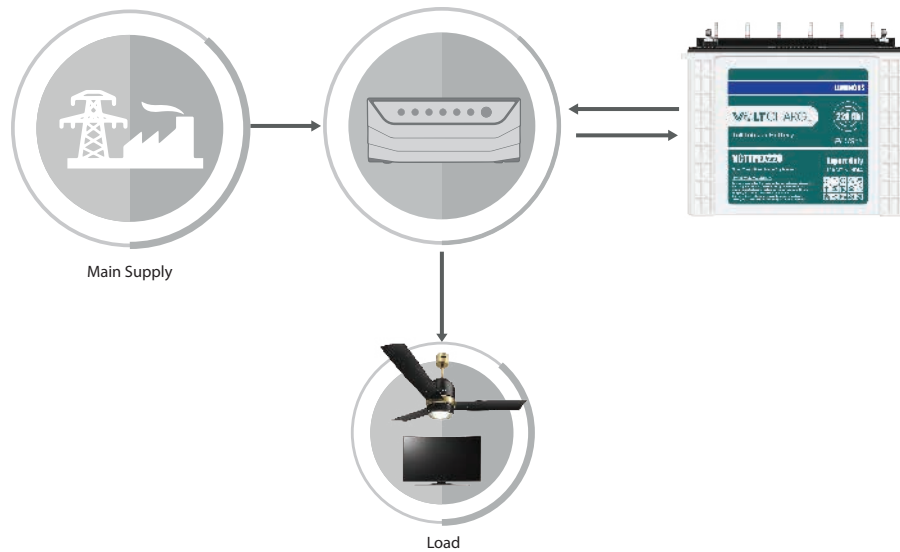
VOLT CHARGE TALL TUBULAR BATTERY

Available Models
200Ah - 220AH

Technical Specifications

Model No.	VCTTEX200	VCTTPEX220
Nominal Voltage (V)	12	12
Rated C20 Capacity at 27°C (Ah)	200	220
DIMENSION OF BATTERY		
Length mm (±3)	502	502
Width mm (±3)	191	191
Height up to Terminal (±3)	415	415
WEIGHT		
Battery weight Kg (±5%)	58.00	60.5
Battery packed weight (±5%)	60.50	63
CHARGING CURRENT (BOOST MODE)		
Starting (Amp)	20.2	22.2
Finishing (Amp)	10.1	11.1
CHARGING CURRENT (TRICKLE MODE)		
Min (mA)	168	185
Max (mA)	672	739

Schematic Representation



VOLT CHARGE

Special Features:

- A high grade separator ensures less electrical resistance, high oxidation resistance, high porosity, and high charging efficiency
- Tall tubular containers to store more electrolytes to ensure less frequent water topping
- HADI spine casting ensures long service life
- Plates are optimized for improved charge acceptance
- Optimally porous ceramic level indicators suppress water loss
- Environment friendly and safer as it emits less fumes.



VRLA/ AGM SMF BATTERY

Available Models
5Ah - 70Ah

Technical Specifications

Model No.	LUM12V 5Ah	LUM12V 7Ah	LUM12V 7.2Ah	LUM12V 9Ah	LUM12V 12Ah	LUM12V 18Ah	LUM12V 28Ah	LUM12V 45Ah	LUM12V 50Ah	LUM12V 65Ah	LUM12V 70Ah
Nominal Voltage (V)	12										
Rating	5Ah	7Ah	7.2Ah	9Ah	12Ah	18Ah	28Ah	45Ah	50Ah	65Ah	70Ah
Capacity 27°C	C20										
DIMENSION OF BATTERY											
Length (mm)	90	151	151	151	151	181	165	197	229	350	259
Width (mm)	70	65	65	65	98.0	76	125	165	138	168	168
Height (mm)	102	94	94	94	98	165	175	170	212	179	209
Height up to Terminal (mm)	107	99	99	99	102	165	175	170	216	179	212
Battery weight (Kg)	1.88	2.05	2.30	2.60	3.80	5.40	9.70	13.30	17.50	21.30	22.00
Max. Charging current in cyclic Use (Amp)	1.50	2.10	2.16	2.70	3.60	5.40	8.40	13.20	15.00	19.50	21.00
Max. Discharging current (Amp)	50	70	72	90	120	180	280	450	550	650	700
CHARGING VOLTAGE (V@27°C) CYCLE USE											
Min. (V)	14.5	14.5	14.5	14.5	14.5	14.5	14.2	14.5	14.5	14.1	14.1
Max. (V)	14.9	14.9	14.9	14.9	14.9	14.9	14.8	14.9	14.9	14.4	14.4
CHARGING VOLTAGE (V@27°C) STANDBY USE											
Min (V)	13.6										
Max (V)	13.8										



VRLA / AGM BATTERY



NO MAINTENANCE



FACTORY CHARGED BATTERY
IN READY TO USE CONDITION

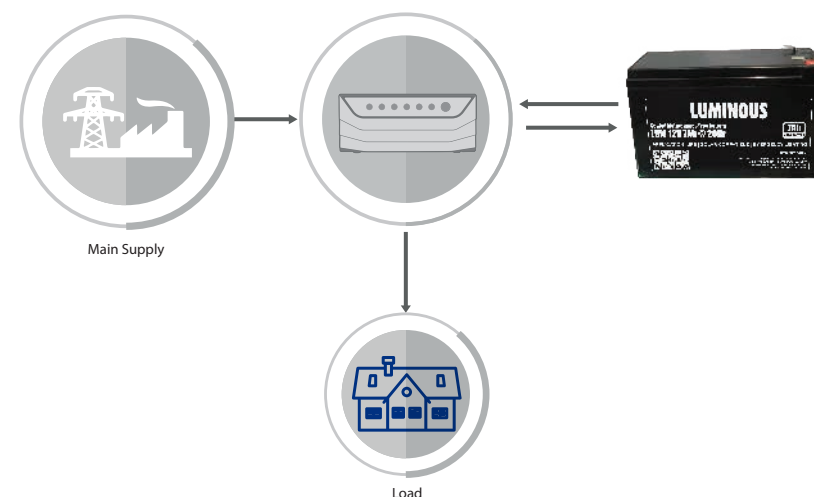
VRLA/ AGM/ SMF BATTERY

Key features:

- AGM technology for efficient gas recombination
- Rubber safety valve
- Float or cyclic use
- Ultra low self-discharge

Service life:

- Expected service life: 3 to 5 years under normal float charge conditions at 25°C
- Cycle service life: 400-500 cycles at 80% Depth of Discharge (DOD); 1100-1200 cycles at 30% DOD
- Extended shelf-life (up to 12 months at 20°C)



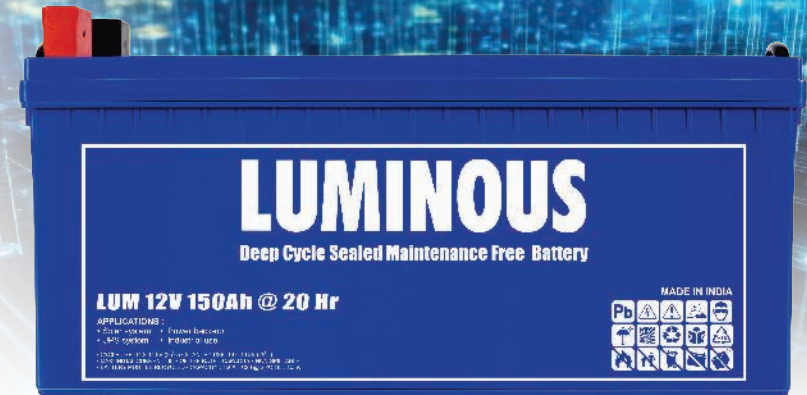
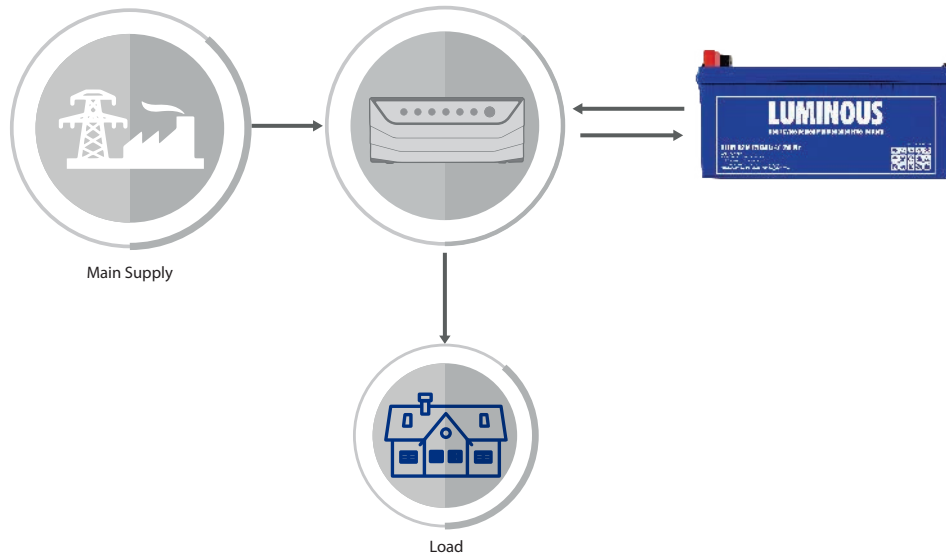
VRLA/ AGM SMF BATTERY

Available Models
100Ah - 200Ah

Technical Specifications

Model No.	LUM12V100Ah	LUM12V150Ah	LUM12V200Ah	LUM12V200Ah
Nominal Voltage (V)				
Rating	100Ah	150Ah	200Ah	200Ah
Capacity	C20			C10
DIMENSION OF BATTERY				
Length (mm)	339	483	522	
Width (mm)	173.0	170.0	240	
Height (mm)	212	241	218	
Height up to Terminal (mm)	217	241	244	
Battery weight (Kg)	26.00	41.50	55.00	61.50
Max. Charging current in cyclic Use (Amp)	27.00	42.0	54.00	60.00
Max. Discharging current (Amp)	900	1400	1800	2000
CHARGING VOLTAGE (V@27°C) CYCLE USE				
Min. (V)	14.1	14.4	14.4	14.1
Max. (V)	14.4	14.8	14.8	14.4
CHARGING VOLTAGE (V@27°C) STANDBY USE				
Min (V)	13.6			
Max (V)	13.8			

Schematic Representation



VRLA/ AGM/ SMF BATTERY

Key features:

- AGM technology for efficient gas recombination
- Rubber safety valve
- Float or cyclic use
- Ultra low self-discharge

Service life:

- Expected service life: 3 to 5 years under normal float charge conditions at 25°C
- Cycle service life: 400–500 cycles at 80% Depth of Discharge (DOD); 1100–1200 cycles at 30% DOD
- Extended shelf-life (up to 12 months at 20°C)

INVERLAST TALL TUBULAR BATTERY

Available Models
200Ah

Technical Specifications

Model No.	LPTTEX12200	LPTTEX200E
Nominal Voltage (V)	12	12
Rated C20 Capacity at 25°C (Ah)	200	200
DIMENSION OF BATTERY		
Length mm (±3)	502	502
Width mm (±3)	192	192
Height up to Terminal (±3)	415	415
WEIGHT		
Battery weight Kg (±5%)	67.00	62.50
Battery packed weight (±5%)	69.50	65.00
CHARGING CURRENT (BOOST MODE)		
Starting (Amp)	24.0	23.2
Finishing (Amp)	12.0	11.6
CHARGING CURRENT (TRICKLE MODE)		
Min (mA)	200	193
Max (mA)	800	773



LOW MAINTENANCE



HIGH TEMPERATURE
PERFORMANCE



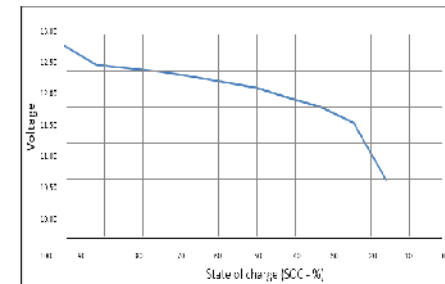
LONG DESIGN
LIFE

SOLAR BATTERY

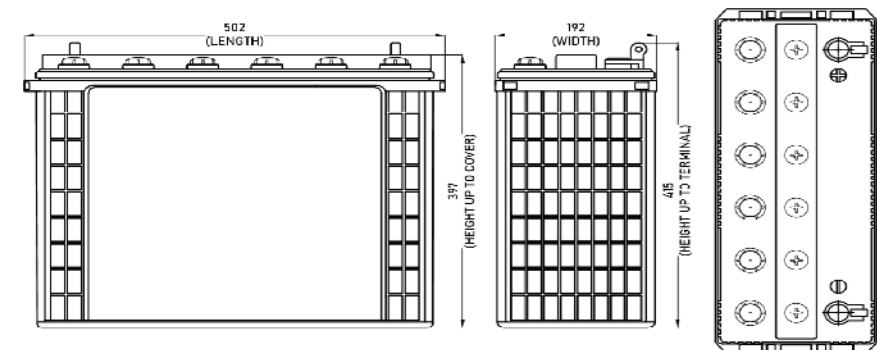
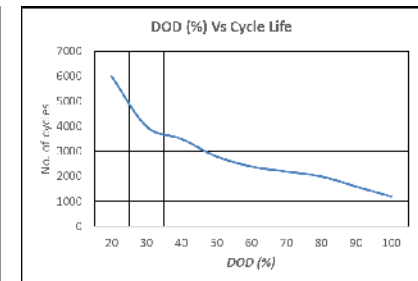
Special Features:

- Easy Maintenance with float indicator
- High Temperature Performance Can handle extreme weather conditions
- Long Design Life Long cycles (1500@80% DOD, 5000 @20% DOD)

STATE OF CHARGE CHARACTERISTICS



TYPICAL DOD VS LIFE CYCLE



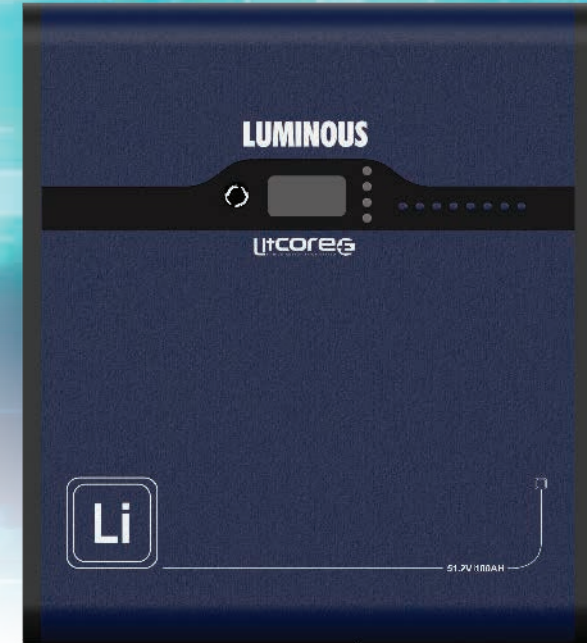
Technical specifications are subject to change without prior notice.

LITCORE E LITHIUM BATTERY PACK

Available Models
100Ah - 460AH

Technical Specifications

Model No.	LITCORE E 100AH 51.2V	LITCORE E 200AH 51.2V	LITCORE E 300AH 51.2V	LITCORE E 400AH 51.2V
Cell Configuration	3.2V100Ah Cell 16S1P	3.2V100Ah Cell 16S2P or 3.2V 200AH Cell-16S1P	3.2V300Ah Cell 16S1P	3.2V230Ah Cell 16S2P
Rated Capacity	100AH	200AH	300AH	460AH
Operating Voltage Range	41.6V-57.6V			
Usable Energy	5.12kWh	10.24kWh	15.36kWh	23.55kWh
Voltage at end of discharge	41.6V			
Charging Voltage	57.6V			
Internal Impedance	< 20mΩ	< 13mΩ	< 10mΩ	< 20mΩ
Standard Charge	Constant Current: 100A			Constant Current: 200A
	Constant Voltage: 57.6V			
	Cut-off: 0.02C A			
Limiting Current	10A			
Standard Discharge	Constant Current: 100A			Constant Current: 300A
	End Voltage: 41.6V			
Maximum continuous charge current	100A			200A
Max. Continuous Discharge current	100A	200A	300A	
Efficiency	>90%			
Recommended Depth of Discharge	80% DOD			
Protection	OV/UV/OC/OT/UT/SC			
Communication Port	USB, RS485, CAN			
Operating Temperature Range	Charge : 0-45°C			
	Discharge: -20-55°C			
	Less than 8 months:-10-35°C, 60±25%R.H.			
Storage Temperature Range	Less than 3 months:-10-45°C, 60±25%R.H.			
	Less than 7 days:-20-65°C, 60±25%R.H.			
Monthly Self Discharge	<3%			
Scalability	Max. 16 parallel			
Display	LCD			
Terminal	Positive & Negative M6 OT Terminal, Communication RJ45			
Weight	53±2 Kg	87±2 Kg	125±2 Kg	185±2 Kg
Cycle Life	6000 cycles**			



3X FASTER CHARGING



COMPACT & SLEEK



LONGER CYCLE LIFE

LITCORE E

Special Features:

- **LCD Display:** An LCD display on a lithium battery system provides real-time information about the battery's status, such as charge level, voltage, current, and temperature.
- **Scalability:** Parallel connection allow for increased energy storage capacity by combining multiple cells or modules in parallel.
- **Longer lifecycle:** Lithium's chemical combination gives lithium-ion batteries a longer lifespan than other chemistries (6000 cycles)
- **Maintenance Free:** They do not require watering or electrolyte replacement.
- **Battery Management System:** BMS monitors voltage, current and temperature of battery pack and protect the same from damage.



3X FASTER CHARGING



COMPACT & SLEEK



LONGER CYCLE LIFE

LITCORE ULTRA

Special Features:

- **Touch Screen Display:** A touch screen display for lithium batteries offers a intuitive way to monitor and manage battery performance.
- **Automatic battery configuration:** Effortlessly manage and optimize your battery packs with automatic configuration for seamless performance and enhanced safety.
- **High Efficiency:** With a charge/discharge >80%.
- **Built-In Safety Features:** Lithium batteries come equipped with safety features to protect against overcharging, overheating, and short circuits
- **Battery Management System:** BMS monitors the voltage, current and temperature of individual battery cells and protects the pack from damage.

LITCORE ULTRA LITHIUM BATTERY PACK

Available Models
100Ah-230Ah

Technical Specifications

Model No.	LU100Ah 25.6V		LU100Ah 51.2V		LU230Ah 25.6V		LU230Ah 51.2V	
Cell Configuration	8S1P		16S1P		8S1P		16S1P	
Rated Capacity	100Ah				230Ah			
Operating Voltage Range	20-29.2V		40-58.4V		20-29.2V		40-58.4V	
Usable Energy	2560Wh		5120Wh		5888Wh		11776Wh	
Voltage at end of discharge	20V		40V		20V		40V	
Charging Voltage	29.2V		58.4V		29.2V		58.4V	
Internal Impedance	≤30mΩ		≤40mΩ		≤20mΩ		≤20mΩ	
	Constant Current : 20A				Constant Current : 30A			
Standard Charge	Constant Voltage:29.2V		Constant Voltage:58.4V		Constant Voltage:29.2V		Constant Voltage:58.4V	
	Cut-off: 5A				Cut-off: 15A			
Limiting Current	20A (at CC> 100A)				20A (at CC>200A)			
	Constant Current : 50A				Constant Current : 115A			
Standard Discharge	End Voltage: 20V		End Voltage: 40V		End Voltage: 20V		End Voltage: 40V	
Maximum continuous charge current	100A				115A			
Max. Continuous Discharge current	100A				200A			
Efficiency	> 99%							
Recommended Depth of Discharge	90%							
Protection	Voltage, Current, Temperature							
Cycle Life	6000 cycles”							
Communication Port	RS485, CAN							
Operating Temperature Range	Charge: 0-550C							
	Discharge: -10-600C							
Storage Temperature Range	>1 month 0-35°C(SOC30-50%)							
	≤1 month -20-45°C(SOC30-50%)							
No of units in Parallel	15 PCS							
Display	Touch Screen							
Terminal	WL-CNT120-A							
Weight	26 kg		46 kg		49 kg		87 kg	

Technical specifications are subject to change without prior notice. **Test conditions: 0.5C Charging/Discharging @25°C, 80% DOD.

LITCORE ULTRA+ LITHIUM BATTERY PACK

Available Models
280Ah 51.2V

Technical Specifications

Model No.	LUP280Ah 51.2V
Cell Configuration	16S1P
Rated Capacity	280Ah
Operating Voltage Range	40-58.4V
Usable Energy	14336Wh
Voltage at end of discharge	40V
Charging Voltage	58.4V
Internal Impedance	≤20mΩ
Standard Charge	Constant Current : 60A
	Constant Voltage: 58.4V
	Cut off : 14A
Limiting Current	20A (at CC>200A)
Standard Discharge	Constant Current : 140A End Voltage: 40V
Maximum continuous charge current	200A
Maximum continuous Discharge current	200A
Efficiency	>99%
Recommended Depth of Discharge	90%
Protection	Voltage, Current, Temperature
Cycle Life	8000 cycles**
Communication Port	RS485, CAN
Operating Temperature Range	Charge: 0-55°C
	Discharge: -10-60°C
Storage Temperature Range	>1month 0-35°C(SOC30-50%)
	≥1month -20-45°C(SOC30-50%)
No of units in Parallel	15 PCS
Display	Touch Screen
Terminal	WL-CNT150
Weight	123 kg



3X FASTER CHARGING



COMPACT & SLEEK

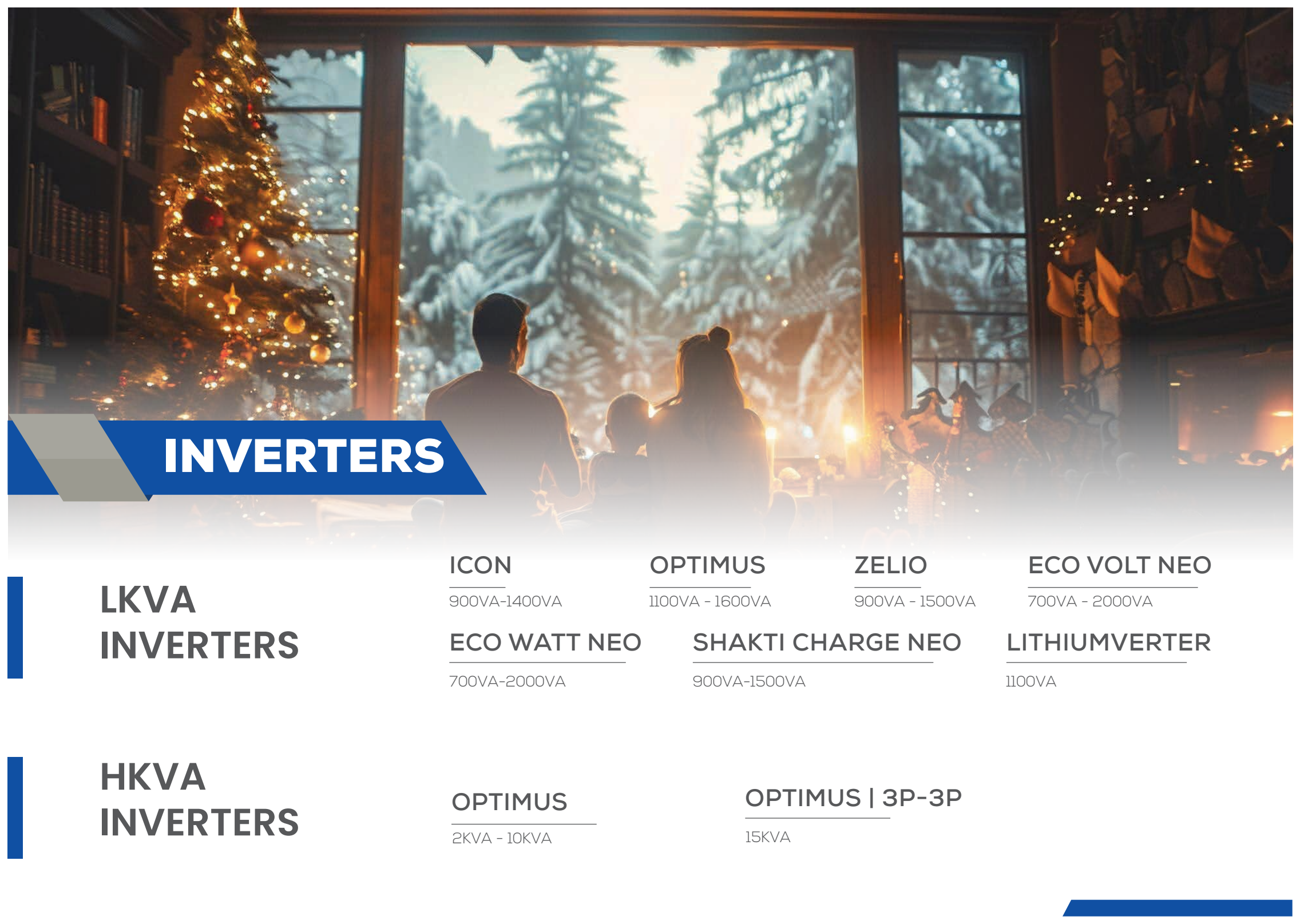


LONGER CYCLE LIFE

LITCORE ULTRA+

Special Features:

- **Touch Screen Display:** A touch screen display for lithium batteries offers a intuitive way to monitor and manage battery performance.
- **Automatic battery configuration:** Effortlessly manage and optimize your battery packs with automatic configuration for seamless performance and enhanced safety.
- **High Efficiency:** With a charge/discharge >80%.
- **Built-In Safety Features:** Lithium batteries come equipped with safety features to protect against overcharging, overheating, and short circuits
- **Battery Management System:** BMS monitors the voltage, current and temperature of individual battery cells and protects the pack from damage.



INVERTERS

LKVA INVERTERS

ICON

900VA-1400VA

OPTIMUS

1100VA - 1600VA

ZELIO

900VA - 1500VA

ECO VOLT NEO

700VA - 2000VA

ECO WATT NEO

700VA-2000VA

SHAKTI CHARGE NEO

900VA-1500VA

LITHIUMVERTER

1100VA

HKVA INVERTERS

OPTIMUS

2KVA - 10KVA

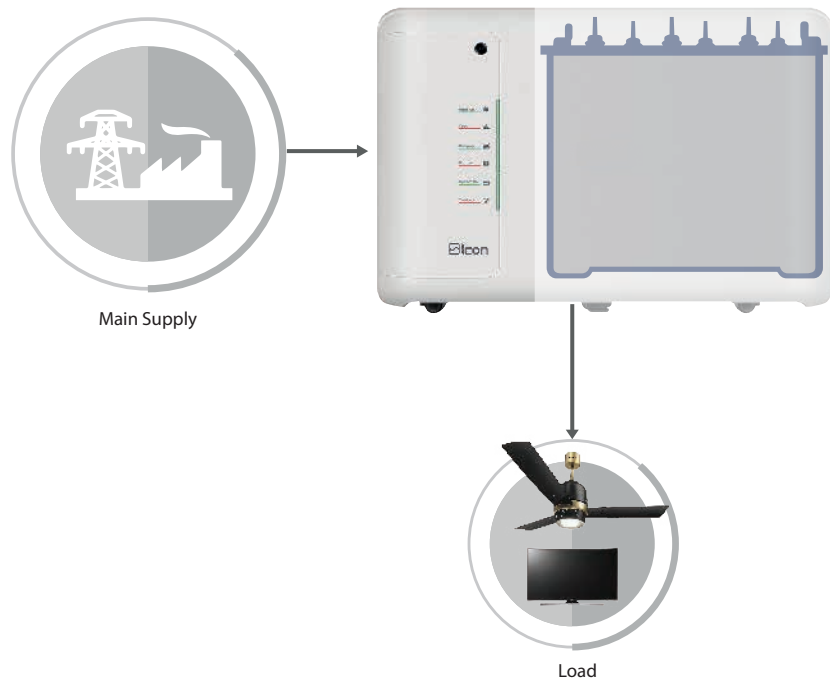
OPTIMUS | 3P-3P

15KVA

Technical Specifications

Model No.	ICON 1100	ICON 1600
Capacity & DC Voltage	900VA/12V	1400VA/24V
INPUT		
Rated Voltage	230 AC	
OUTPUT		
Max. Bulb Load*	756 Watt	1175 Watt
BATTERY		
Max. Charging Current	17A	2A
PHYSICAL		
Net Weight (Kg)	13.0	16.80
Dimensions LxWxH (mm)	765x246x505	
PROTECTION		
Low battery, Overcharge, Overload, Deep Discharge, Short-circuit, Over temperature and MCB		

Schematic Representation



PURE SINE WAVE
TECHNOLOGY



SUPER FAST
BATTERY CHARGING



SUPPORTS TALL
TUBULAR BATTERIES

ICON

Special Features:

- Pure Sine wave Inverter
- Hassle-free battery water top-up
- Fast Charge Technology: Charges the battery at full current even when input voltage is as low as 90V
- Revolutionary design comprising of dedicated enclosure for battery
- Safe design with no exposed wiring
- Smart LED indications

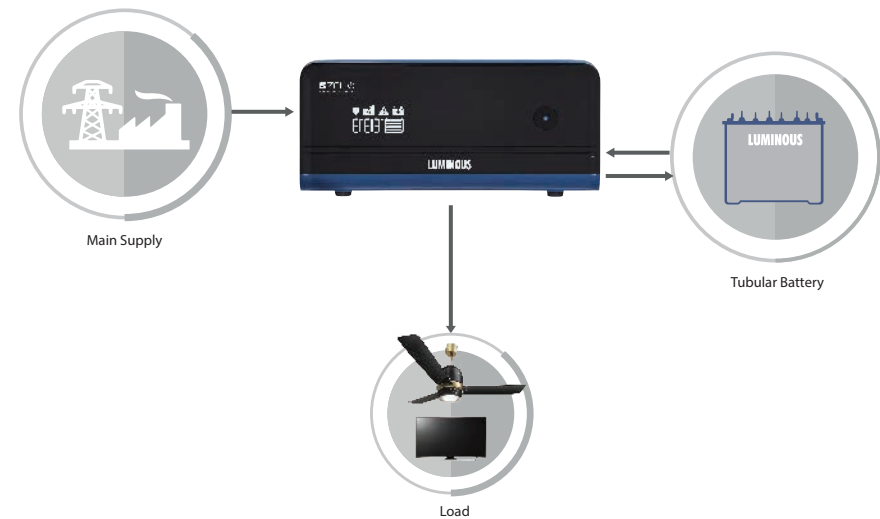
ZELIO INVERTER

Available Models
900VA - 1500VA

Technical Specifications

Model No.	Zelio 900	Zelio 1500
Capacity & DC Voltage	900VA/12V	1500VA/24V
INPUT		
Rated Voltage	230 AC	
OUTPUT		
Max. Bulb Load*	756 Watt	1200 Watt
BATTERY		
Max. Charging Current	15A	17A
PHYSICAL		
Net Weight (Kg)	10.0	14.3
Dimensions LxWxH (mm)	275 x 248 x 120	310 x 290 x 135
PROTECTION		
Overload, Deep Discharge, Short-circuit, Over temperature and MCB		

Schematic Representation



PURE SINE WAVE
OUTPUT



PROTECTION
THROUGH MCB



INTUITIVE & EASY
TO USE INTERFACE

ZELIO

Special Features:

- Power back-up time display in hours & minutes
- Input mains protection through MCB
- 32 bit DSP processor
- Supports wide battery range i.e Flate Plate, Tubular, SMF (VRLA)
- The battery electrolyte level indicator lights up when a water top-up is needed

OPTIMUS INVERTER

Available Models
1100VA - 1600VA

Technical Specifications

Model No.	Optimus 1100	Optimus 1600
Capacity & DC Voltage	1100VA/12V	1600VA/24V
INPUT		
Rated Voltage	230 AC	
OUTPUT		
Max. Bulb Load*	880 Watt	1280 Watt
BATTERY		
Max. Charging Current	18A	18A
PHYSICAL		
Net Weight (Kg)	11.4	13.4
Dimensions LxWxH (mm)	305 x 275 x 139	300 x 285 x 139
PROTECTION		
Overload, Deep Discharge, Short-circuit, Over temperature and MCB		

Schematic Representation



MCB PROTECTION



BACK-UP TIME &
BATTERY CHARGING TIME



3 MODES
BATTERY CHARGER

OPTIMUS

Special Features:

- A bypass switch ensure that power continuity is maintained in the event of a failure of Inverter. This will give time to get the issue resolved without interrupting the power supply at home.
- Can select the charging current as per the battery/Increase the charging current for fast charging.
- Back time display in Hours & Minute.
- Users can manually select the output voltage based on appliance requirements

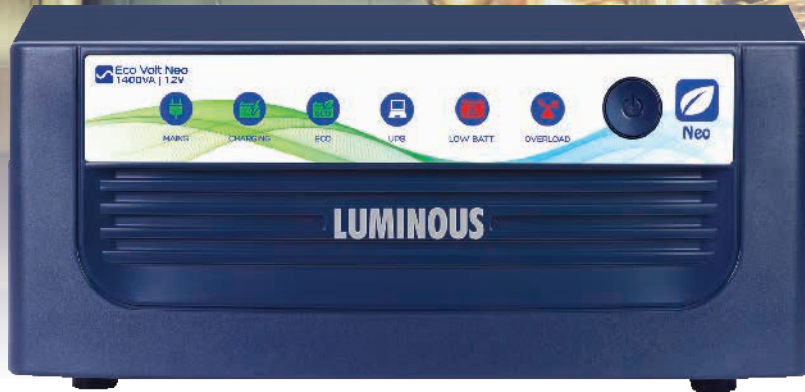
ECO VOLT NEO NEO CHARGING

Available Models
700VA - 1500VA

Technical Specifications

Model No.	Eco Volt Neo 700	Eco Volt Neo 900	Eco Volt Neo 1400	Eco Volt Neo 1500
Capacity & DC Voltage	700VA/12V	900VA/12V	1400VA/12V	1500VA/24V
INPUT				
Rated Voltage	230V			
OUTPUT				
Max. Bulb Load*	560 Watt	756 Watt	1176 Watt	1260 Watt
BATTERY				
Max. Charging Current	14A	17A	17A	17A
PHYSICAL				
Net Weight (Kg)	7.1	9.5	13.5	14.0
Dimensions LxWxH (mm)	275 x 262 x 120	275 x 262 x 120	305 x 275 x 130	305 x 275 x 130
PROTECTION Low Battery, Over charge, Overload, Deep Discharge, Short-circuit, Over temperature and MCB				

Schematic Representation



CHARGING AT
LOW VOLTAGE



ABCC
TECHNOLOGY



SAFE FOR
APPLIANCES

ECO VOLT NEO | NEO CHARGING

Special Features:

- Rugged technology designed for high performance and extended backup times, particularly in areas with high power outages.
- Supports a wide range of batteries with 3-step charging current and 4-step battery type selection
- Adaptive Battery Charging Control (ABCC) technology enables faster charging and extends battery life
- Consistent battery charging even at low voltages (as low as 90V)

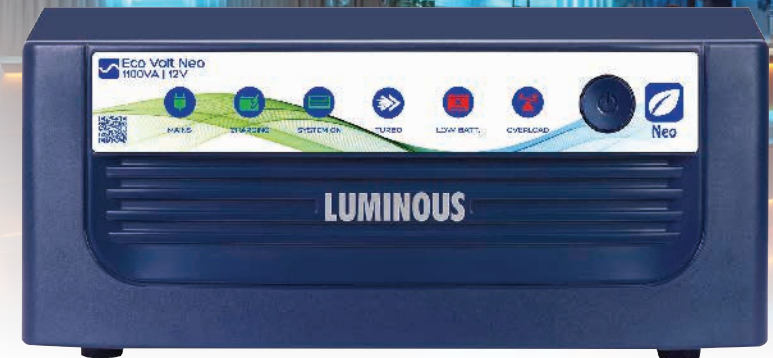
ECO VOLT NEO FASTER CHARGING

Available Models
1100VA - 2KVA

Technical Specifications

Model No.	Eco Volt Neo 1100VA	Eco Volt Neo 2KVA
Capacity & DC Voltage	1100VA/12V	2KVA/24V
INPUT		
Rated Voltage	230 AC	
OUTPUT		
Max. Bulb Load*	924 Watt	1600 Watt
BATTERY		
Max. Charging Current	25A	21A
PHYSICAL		
Net Weight (Kg)	13.0	17.9
Dimensions LxWxH (mm)	305 x 275 x 140	402 x 240 x 132
PROTECTION		
Overload, Deep Discharge, Short-circuit, Over temperature and MCB		

Schematic Representation



ECO VOLT NEO | FASTER CHARGING

Special Features:

- Turbo mode boosts the voltage load as required by certain appliances to run smoothly
- Rugged technology is intended for high performance and extended backup times, particularly in high-power cut areas.
- Supports a wide range of batteries with 3-step charging current and 4-step battery type selection
- Adaptive battery charging control technology (ABCC) ensures faster battery charging and enhances battery life
- Higher charging even at Low Voltage (Upto 90V)

SHAKTI CHARGE

Available Models
900-1500VA

Technical Specifications

Model No.	Shakti Charge 1150	Shakti Charge 1450	Shakti Charge 1750
Capacity & DC Voltage	900VA/12V	1100VA/12V	1500VA/12V
INPUT			
Rated Voltage	90V-290V		
OUTPUT			
Max. Bulb Load*	756W	724W	1260W
BATTERY			
Max. Charging Current	16A	20A	27A
PHYSICAL			
Net Weight (Kg)	9.9	11.1	14.60
Dimensions LxWxH (mm)	402 x 320 x 132	402 x 320 x 132	402 x 320 x 150
PROTECTION			
Overload, Shortcircuit, Battery Deep Discharge, Low Battery, Overcharge & Battery			

Schematic Representation



Technical specifications are subject to change without prior notice.



MODIFIED SQUARE
WAVE



LOW VOLTAGE FAST
CHARGING TECHNOLOGY



RUNS HEAVY LOAD ON
SINGLE BATTERY

SHAKTI CHARGE

Special Features:

- A single-battery UPS capable of running high-power appliances like steam irons, heaters, immersion rods, and rice cookers
- That charges the battery with full current even when the mains input voltage is as low as 95 Volt.
- Proprietary 'Rapid Battery Charge' (RBC) technology that can recharge the battery up to 60% faster.
- Built-in heavy-duty charger and LVFC (Low Voltage Fast charging) technology that charges the battery with full charging even when input voltage is low.

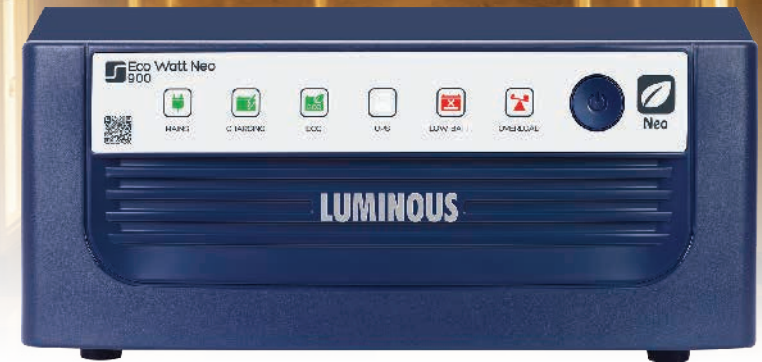
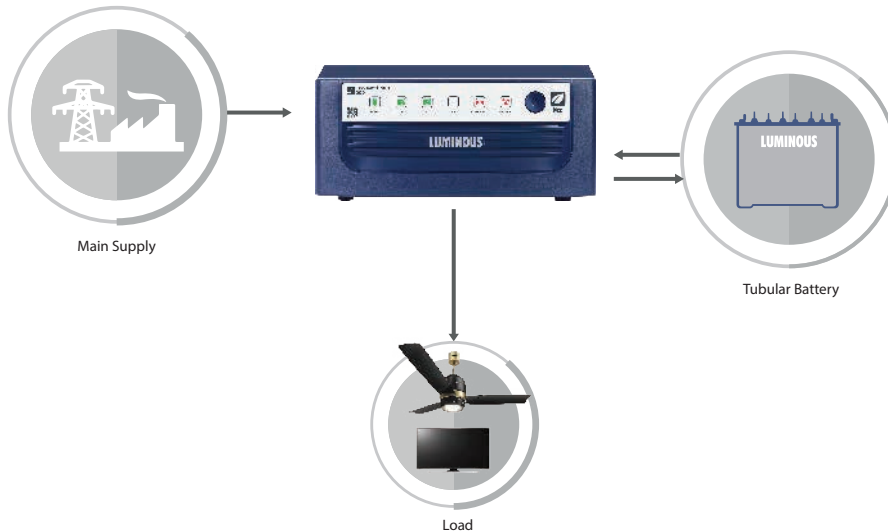
ECO WATT NEO INVERTER

Available Models
700VA - 1500VA

Technical Specifications

Model No.	Eco Watt 700	Eco Watt 900	Eco Watt 1500
Capacity & DC Voltage	700VA/12V	900VA/12V	1500VA/24V
INPUT			
Rated Voltage	230V		
OUTPUT			
Max. Bulb Load*	588 Watt	756 Watt	1260 Watt
BATTERY			
Max. Charging Current	14A	17A	17A
PHYSICAL			
Net Weight (Kg)	7.8	9.3	14.5
Dimensions LxWxH (mm)	275 x 262 x 124	275 x 262 x 124	275 x 305 x 130
PROTECTION			
Low Battery, Overcharge, Overload, Deep Discharge, Short-circuit, Over temperature and MCB			

Schematic Representation



MODIFIED
SQUARE WAVE



FASTER BATTERY
CHARGING



RELIABLE LONG
LASTING PERFORMANCE

ECO WATT NEO

Special Features:

- Battery charging commences at input voltage as low as 100V AC
- Four selectable charging profiles customized to different battery types
- Intelligent thermal management system keeps the inverter cool and shuts it down during overheating

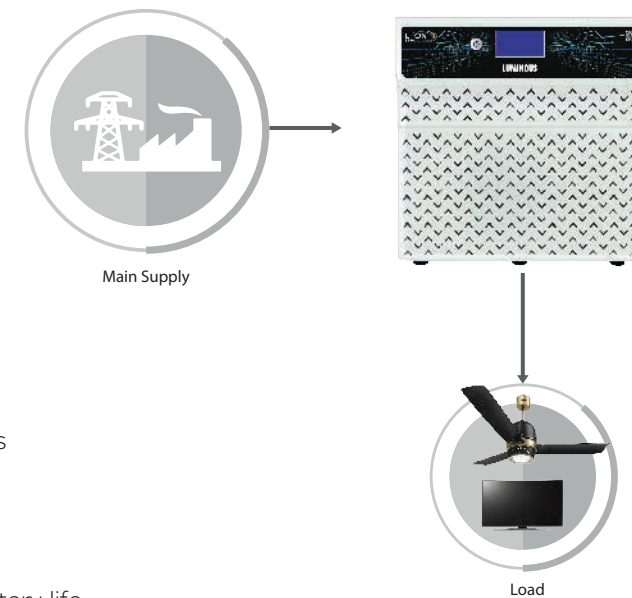
LITHIUMVERTER

Available Models
1100VA

Technical Specifications

Model No.	Lithiumverter 1250
Capacity & DC Voltage	1100VA/12V
INPUT	
Rated Voltage	230V
OUTPUT	
Max. Bulb Load*	880 Watt
BATTERY	
Max. Charging Current	21A
PHYSICAL	
Net Weight (Kg)	25
Dimensions LxWxH (mm)	300 x 355 x 284
PROTECTION	
Low Battery, Pre alarm, Overload, Deep Discharge, Short-circuit, Over temperature and DC MCB	

Schematic Representation



LITHIUMVERTER

Special Features:

- New Age technology: Sine wave Inverter with in-built Li-On battery
- 3X longer lifespan, 3X faster charging, zero maintenance, and 15% more efficiency than lead-acid batteries
- Compact size: Occupies 50% less floor area than the existing inverter battery trolley solution
- Safe: no acid spills, no toxic fumes, no protruding wires, safe to place it inside the home
- Intelligent inverter with Advanced LCD design
- Intelligent: Inverter with Battery management system which offers superior performance and increases battery life
- LCD display shows Battery back-up time, charging time, ECO/UPS mode, fault indications and percentage load running on the inverter"



3X FASTER CHARGING



LITHIUM-ION
TECHNOLOGY



LONGER BATTERY
LIFE, UPTO 10 YEARS

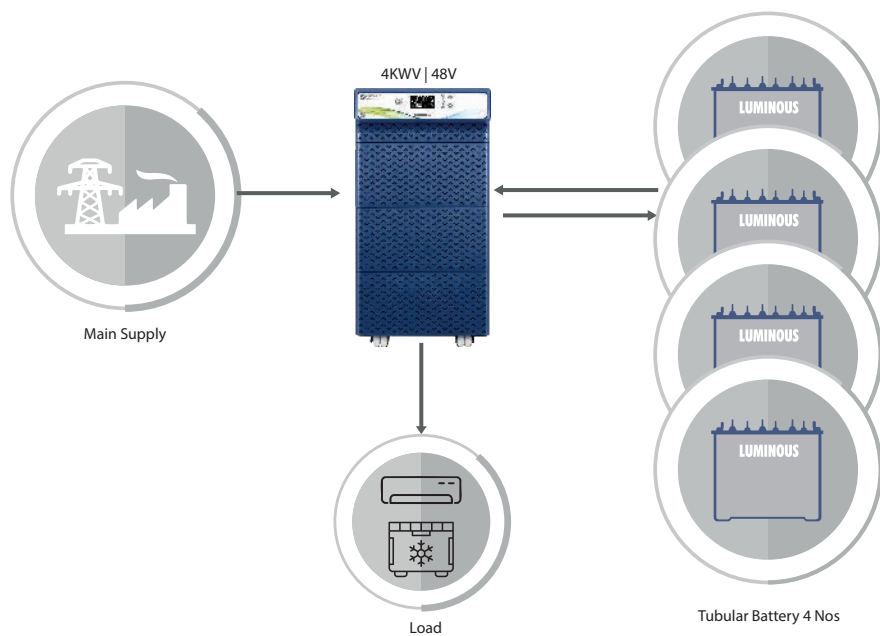
OPTIMUS HKVA INVERTER

Available Models
2KVA - 10KVA

Technical Specifications

Model No.	2KVA	2.5KVA	4KVA	5.5KVA	7.5KVA	10KVA
Capacity & DC Voltage	2KVA/24V	2.5KVA/24V	4KVA/48V	5.5KVA/48V	7.5KVA/96V	10KVA/120V
INPUT						
Rated Voltage	230V					
OUTPUT						
Max. Bulb Load*	1600 Watt	2000 Watt	2850 Watt	3800 Watt	6000 Watt	8000 Watt
BATTERY						
Max. Charging Current	21A	21A	21A	21A	21A	21A
PHYSICAL						
Net Weight (Kg)	21.0	22.5	31.5	36.0	65.0	80.0
Dimensions LxWxH (mm)	300 x 326 x 284		300 x 471 x 452		300 x 670 x 429	
PROTECTION						
Deepdischarge, Short circuit, Overload, Low battery, MCB protection						

Schematic Representation



PURE SINE
WAVE OUTPUT



OUTPUT VOLTAGE
CONTROL 200V-240V



MCB AND BY PASS
SWITCH PROTECTION

OPTIMUS

Special Features:

- Compact design with improved efficiency
- In-built TDR handling high inrush current at output load for longer time
- User friendly display with system status icons and multi-functional control buttons with user settable parameters
- Easily bypass the inverter in case of failure, ensuring uninterrupted mains power without additional wiring
- Mains MCB protection



3-PHASE IN
3PHASE OUT

MCB PROTECTION

INTUITIVE & EASY
TO USE INTERFACE

OPTIMUS 3P-3P

Special Features:

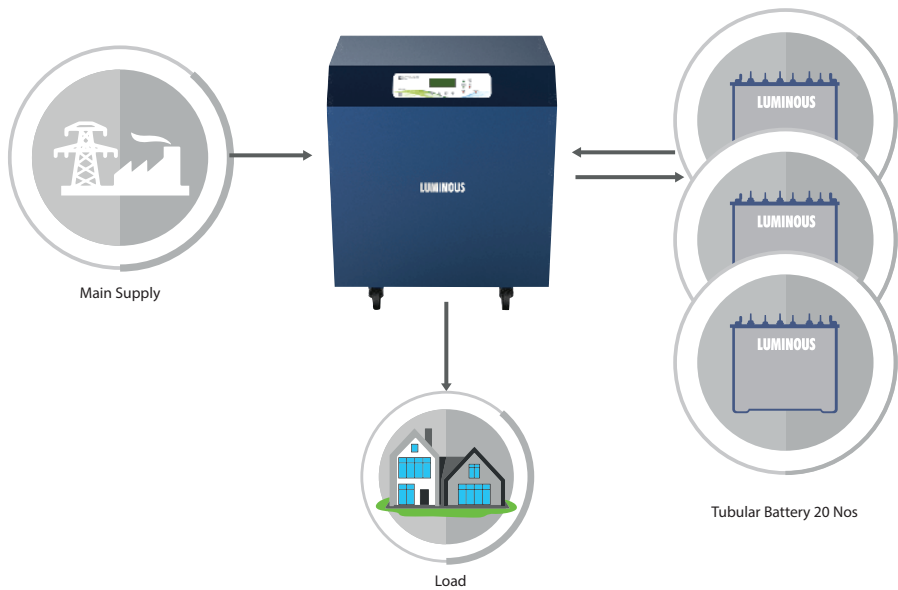
- Suitable for Heavy duty applications
- High reliability with a low running cost
- Safety for sensitive equipments
- User friendly LCD display
- Unbalanced load handling capability
- Inbuilt phase reversal detection
- Reverse battery protection

OPTIMUS 3P-3P

Available Models
15KVA

Technical Specifications

Model No.	Optimus 15KVA
Capacity & DC Voltage	15KVA/240V
PF	0.8
Configuration	3P + N + E (3Phase, 4wires + Earth)
Output Voltage (Selectable)	230V/ 220V±2% (Phase-Neutral), 400V/380V (Phase-Phase)
Battery	
Charging Current	10A/ 15A/ 20A
Physical	
Net Weight (Kg)	134
Dimensions LxWxH (mm)	68 x 43.6 x 82



Technical specifications are subject to change without prior notice.

OFF-GRID SOLAR SOLUTION

NXG+

500VA - 2000VA

NXG PRO

1KVA/12V | 1KVA/24V

SOLARVERTER

2KVA - 3KVA

SOLARVERTER PRO PCU

2KVA-10KVA

RAYVERTER NEO+

3.2KVA - 6KVA

RAYVERTER NEO ELITE

8KVA - 11KVA





**INTELLIGENT LOAD
SHARING**



**INFORMATIVE LCD
DISPLAY**



**MAX CAPACITY
UTILIZATION**

NXG+ INVERTER

Special Features:

- ISOT Technology Intelligent Solar Optimization Technique (ISOT) maximizes solar energy usage in both backup and charging mode of operation.
- Safety and Protection In-built protection against deep discharge, overcharge, excessive current and short-circuit.
- Fast Charging I-charge technology allows batteries to be charged quickly. This is a user-defined setting.
- Pure Sine Wave Output Ensures noiseless operation and safety of connected appliances.

NXG+ INVERTER

Available Models
500VA - 2000VA

Technical Specifications

Model No.	NXG 850	NXG 1150	NXG 1450	NXG 1850	NXG 2350
Nominal Battery Voltage (Vdc)	12	12	12	24	24
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/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					
System ON indication	System ON LED Steady			Mains Available, Power Saving, Solar Current, Solar Power, System On, Grid Charging, Low Battery, Overload, No Load Shutdown	
Mains ON indication	ON Mains LED steady				
Charging ON indication	ON Mains LED steady + CHG. LED Steady				
Low battery pre-alarm indication	System ON LED Steady + Battery Low LED Blinking				
Low battery indication	Battery Low LED Steady				
Battery Charged Indication	ON Mains LED steady + CHG. LED Off				
Overload Indication	Overload LED Steady				
Short circuit indication in UPS mode	Overload LED Blinking/(ON Mains & Overload LED) Blinking				
DC overload indication	ON Mains LED + Charge LED Blinking				
Thermistor Open/Short Indication	ON Mains LED & Overload LED Steady				
Output Feedback open/Reverse	ON Mains LED & Overload LED Blinking				
Battery Charging Through Solar	Solar Charging LED Blinking				
Power Saving Mode	Power Saver Steady + Solar Chg. LED Blinking/Steady				
Battery Charging Through Solar + Mains	ON Mains LED+Charge LED Steady+Solar Charging LED Blinking				
No Load Shutdown	System ON LED Blinking				
Solar Over Current	Solar Charging LED Blink Faster				
GENERAL					
Net Weight (Kg)	7.5 kg	10.2 kg	12.8 kg	14.6 kg	18.5 kg
Gross weight (Kg)	8.2 kg	11.1 kg	14.2 kg	16.0 kg	20 kg
Dimensions LxWxH (mm)	320x302x130			320x275x150	

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

Technical specifications are subject to change without prior notice.

NXG PRO INVERTER

Available Models
1KVA- 12V/24V

Technical Specifications

Model No.	NXG Pro 1KVA/12V	NXG Pro 1KVA/24V
Nominal Battery Voltage (Vdc)	12V	24V
Capacity (kVA)	1 KVA	
Output Waveform	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	50Hz +/- 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	<20 mS	
LCD Display Messages	Mains Available, Power Saving, Solar Current,Solar Voltage, Solar Power, System On, Grid Charging, Low Battery,	
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	



MAX CAPACITY
UTILIZATION



INFORMATIVE LCD
DISPLAY



COMPATIBLE WITH BOTH
12V & 24V SOLAR PANELS

NXG PRO

Special Features:

- Smart Solar Optimization: Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.
- Guaranteed Safety: Comprehensive protection features include short circuit, reverse polarity, surge protection, etc.
- IEC Certified: Product certified as per IEC standards
- User friendly LCD Display: Makes it convenient for user to easily monitor various performance parameters.



SOLARVERTER INVERTER

Available Models
2KVA - 3KVA

Technical Specifications

Model No.	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 5times 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	Upto 95% (non-condensing)	
Max. Altitude above sea level without de-rating (m)	1000 m	
GENERAL		
Dimension (WxDxH) [mm]	458 x 433 x 380	485 x 433 x 557
Net Weight (Kg)	27	35



**INFORMATIVE
LCD DISPLAY**



**SMART SOLAR
OPTIMIZATION**



**MAX CAPACITY
UTILIZATION**

**IEC
CERTIFIED**

SOLARVERTER

Special Features:

- Smart Solar Optimization: Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.
- Guaranteed Safety: Comprehensive protection features include short circuit, reverse polarity, surge protection, etc.
- Maximum Power Point Tracking: MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.
- IEC Certified: Product certified as per IEC standards
- User friendly LCD Display: Makes it convenient for user to easily monitor various performance parameters.

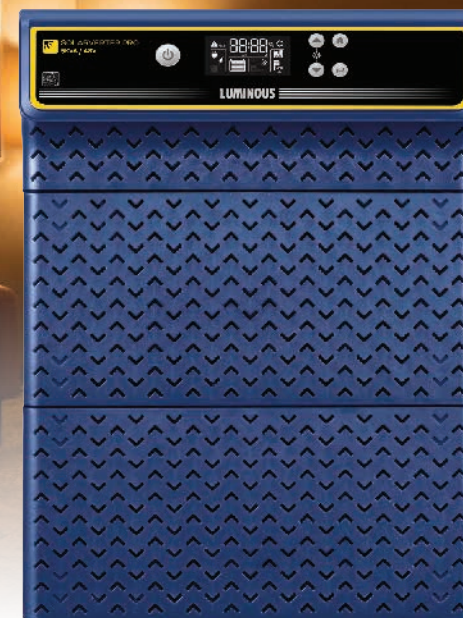
Technical specifications are subject to change without prior notice.

SOLARVERTER PRO PCU INVERTER

Available Models
2KVA- 10KVA

Technical Specifications

Model No.	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	2000W	3500W	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-20A		0A, 4A-20A (use 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 Phsse 2 Wire		
Nominal Frequency	50 Hz		
Nominal Output Current	7.5A	11A	12.5A±5%
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



USER-FRIENDLY LCD
DISPLAY



SMART SOLAR
OPTIMIZATION



APP BASED MONITORING

SOLARVERTER PRO PCU



Special Features:

- Smart Solar Optimization: Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.
- Guaranteed Safety: Comprehensive protection features include short circuit, reverse polarity, surge protection, etc.
- Maximum Power Point Tracking: MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.
- IEC Certified: Product certified as per IEC standards
- User friendly LCD Display: Makes it convenient for user to easily monitor various performance parameters.

SOLARVERTER PRO PCU INVERTER

Available Models
2KVA- 10KVA

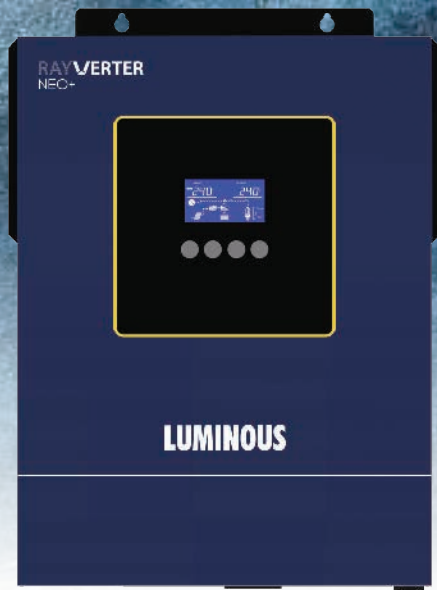
Technical Specifications

Model No.	Solarverter Pro 5KVA	Solarverter Pro 6KVA	Solarverter Pro 7.5KVA	Solarverter Pro 10KVA
Capacity (KVA)	5kVA	6kVA	7.5kVA	10kVA
Nominal Battery Voltage (Vdc)	48V	96V	96V	120V
Output Waveform	Sinewave			
SOLAR PHOTOVOLTAIC INPUT				
Type of Charger		MPPT		
Maximum PV power	5000W	6000W	7500W	10000W
Solar Input Voltage (Voc)	130V-220V	180V-250V	250V-400V	300V-500V
Solar Input Voltage range (Vmp)	110V-180V	150V-200V	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	4	8		10
Battery Charging Current from Solar	30A	50A	30A	30A
Battery Charging Current from Grid	0A, 4A-20A (user settable)	0A, 14A, 17A, 20A	0A, 4A-20A (user settable)	0A, 4A-20A (user settable)
Charging Stages	Boost, Absorption, Float			
Type of Battery	Tubular/SMF/Flat			
INVERTER				
Switching Element	MOSFET	IGBT		MOSFET
Control		32 Bit DSP Controlled		
Nominal Output Voltage (V)		230V±5%		
Output Supply Phase		1Phase 2Wire		
Nominal Frequency		50Hz		
Nominal Output Current	17.5A±1A	20A±1A	26A±1A	34A±1A
Output Voltage Distortion(THD)		<= 5%		
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	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	690x400x500	740x400x580
Net Weight (kg)	54.0 Kg	58.0 Kg	78.0 Kg	101.0 Kg



SOLARVERTER PRO PCU





LCD DISPLAY PANEL



SUPPORTS
LITHIUM BATTERY



WALL MOUNTED

RAYVERTER NEO+

IEC
CERTIFIED

Special Features:

- Pure sine wave MPPT solar inverter Built-in 80/120A MPPT solar charger
- Battery independent operation
- Battery equalization function to extend life cycle
- Reserved communication port (RS485) for BMS
- Two outputs for smart load management*
- Monitor your smart system on the move via our monitoring App and In-built Wi-fi*

RAYVERTER NEO+ OFF-GRID INVERTER

Available Models
3.2KVA - 6KVA

Technical Specifications

Model No.	Neo 3.2 kva/12V	Neo+ 4kva/24V	Neo+ 6kva/48V
Rated Power	3200VA/3200W	4000VA/4000W	6000VA/6000W
AC INPUT			
AC Voltage	230 VAC		
Voltage Range	170-280VAC (For Personal Computers); 90-280 VAC (For Home Appliances)		
Frequency Range	50/60Hz (Auto sensing)		
AC OUTPUT			
Surge Power	6400VA	8000VA	12000VA
AC Voltage Regulation (Battery Mode)	230VAC +5%		
Rated frequency	50/60Hz		
Efficiency (Peak)	93%		
Transfer Time	10ms (For Personal Computers), 20ms (For Home Appliances)		
BATTERY			
Battery Voltage	24VDC	24VDC	48VDC
Floating Charge Voltage	27VDC	27VDC	54VDC
Overcharge Protection	33VDC	33VDC	63VDC
Battery type	Lithium/Lead-acid		
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Open Voltage)	500VDC		
Maximum PV Array Power	3500W	5000W	7000W
MPPT voltage range(V)	30-450VDC	60-450VDC	
Maximum input current	15A	20A	27A
MPPT tracker/strings	1		
Maximum solar charge current	80A	120A	
Maximum AC charge current	60A	100A	
Maximum charge current	80A	120A	
PROTECTION & FEATURE			
AC overcurrent	Yes		
AC overvoltage	Yes		
Over temperature protection	Yes		
Smart load management (Dual Output)	No	Yes	
GENERAL PARAMETERS			
Operation temperature	-10°C- 50°C		
Relative humidity	5%-95-% (Non-condensing)		
Altitude	>2000m Derating)		
Dimensions DxWxH (mm)	348 x 270 x 95	400 x 300 x 115	
Net Weight(KG)	5.5	6.5	9
COMMUNICATION			
Interface	Standard: RS232,USB; CAN & RS485; WiFi		
Safety standard	EN/IEC62109-1,EN/IEC62109-2		

Technical specifications are subject to change without prior notice. | *Available for 4kva & 6kva models

RAYVERTER NEO ELITE OFF-GRID INVERTER

Available Models
8KVA - 11KVA

Technical Specifications

Model No.	Neo Elite 8kva/48V	Neo Elite 11kva/48V
Rated Power	8000VA/8000W	11000VA/11000W
AC INPUT		
AC Voltage	220/230/240VAC	
Voltage Range	170-280VAC (For Personal Computers); 90-280 VAC (For Home Appliances)	
Frequency Range	50/60Hz (Auto sensing)	
AC OUTPUT		
Surge Power	16000VA	22000VA
AC Voltage Regulation (Battery Mode)	220VAC/230VAC/240VAC 1 5%	
Rated frequency	50/60Hz	
Efficiency (Peak)	93%	
Transfer Time	10ms (For Personal Computers); 20ms (For Home Appliances)	
BATTERY		
Battery Voltage	48VDC	
Floating Charge Voltage	54VDC	
Overcharge Protection	63VDC	
Battery type	Lithium/Lead-acid	
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Open Voltage)	500VDC	
MPPT voltage range(V)	60-450VDC	
Maximum PV Array Power	11000W (5500W x 2)	13000W (6500W x 2)
Maximum input current	27A x 2 (MAX 40A)	
MPPT tracker/strings	2	
Maximum solar charge current	120A	150A
Maximum AC charge current	120A	150A
Maximum charge current	120A	150A
PROTECTION & FEATURE		
AC overcurrent	Yes	
AC overvoltage	Yes	
Over temperature protection	Yes	
Smart load management (Dual output)	Yes	
Parallel function	Yes, upto 6 units	
CT Anti-backflow function	Yes	
GENERAL PARAMETERS		
Operation temperature	-10°C - 50°C	
Relative humidity	5%-95% (Non-condensing)	
Altitude	(>2000m Derating)	
Dimensions DxWxH (mm)	553.6 x 432.5 x 147.4	
Net Weight(KG)	18	
COMMUNICATION		
Interface	Standard: RS232,CAN & RS485; WiFi	
Safety standard	EN/IEC 62109-1,EN/IEC 62109-2	



IN-BUILT WI-FI



PARALLEL OPERATION



DUAL OUTPUT

RAYVERTER NEO ELITE



Special Features:

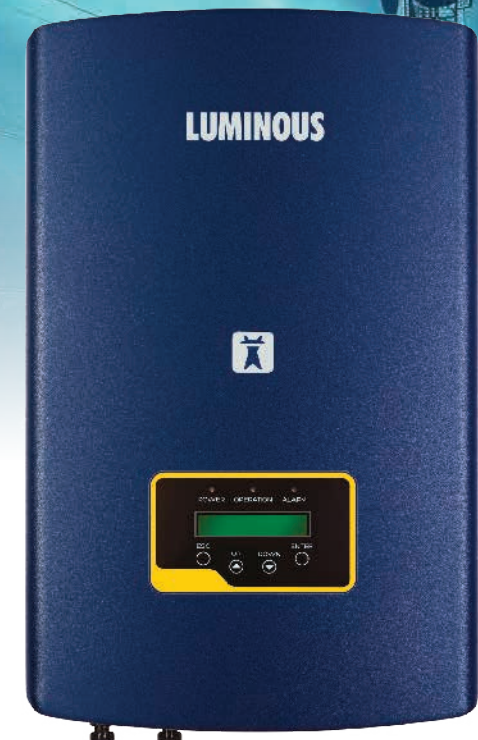
- Parallel operation upto 6 units
- Control and monitor your smart system on the move via our monitoring App
- Battery equalization function to extend life cycle
- Reserved communication port (RS485) for BMS
- Two outputs for smart load management
- Easy access Interactive LCD Screen

LUMINOUS

ON-GRID SOLAR SOLUTION

NXi GRID TIE INVERTER

3kW - 110kW

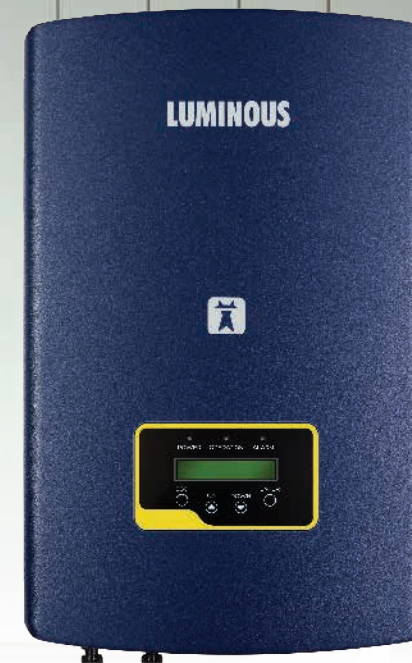


NXi GRID TIE | SINGLE PHASE INVERTER

Available Models
3kW - 5kW

Technical Specifications

Model No.	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)	50/60 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%	>97.6%	
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 (WHD) (mm)	310 x 373 x 160	310 x 543 x 160	
Net weight (Kg)	7.7	8.9	
STANDARDS			
Safety/EMC	As per IS/IEC standards		



USER-FRIENDLY LCD
DISPLAY



SMART SOLAR
OPTIMIZATION



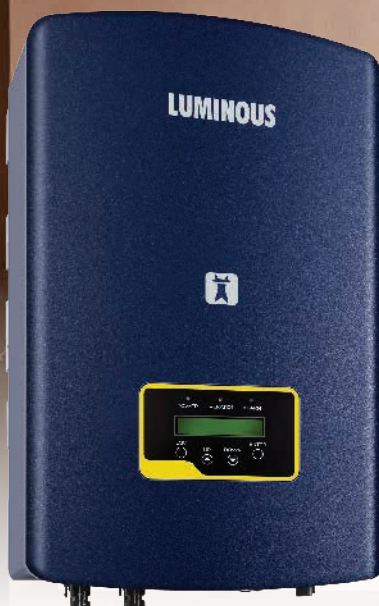
APP BASED MONITORING

NXi GRID TIE | SINGLE PHASE INVERTER

IEC
CERTIFIED

Special Features:

- 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.
- IP66 Protection: Designed to work in tough weather conditions. Flawless operation despite dust, rain or extreme temperature variations
- IEC Compliance*: Complies with IEC standards IEC-61683, IEC-60068, IEC-61000, IEC-61727, IEC-62116
- Remote Monitoring: Multiple modes of connectivity for remote monitoring enables proactive maintenance.



IP66 PROTECTION



> 97%
EFFICIENCY



CONNECTIVITY
OPTIONS

NXi GRID TIE | THREE PHASE INVERTER



Special Features:

- 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 for each panel string & identify fault or abnormality (25kW & above models)
- *IEC Compliance: Complies with IEC standards IEC - 61683, IEC - 60068, IEC - 61000, IEC - 61727, IEC - 62116
- Remote Monitoring: Multiple modes of connectivity for remote monitoring enables proactive maintenance
- 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)

NXi GRID TIE | THREE PHASE INVERTER

Available Models
5kW - 110kW

Technical Specifications

Model No.	Nxi 305	Nxi 306	Nxi 308	Nxi 310	Nxi 312
Rated output power (kW)	5	6	8	10	12
INPUT DC					
Max. DC Input Power (kW)	7.5	9.0	12	15	18
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
Max. output power [kW]	5.5	6.6	8.8	11	13.2
Max. Output Current [A]	8.4	10	13.4	16.7	20.1
Grid Frequency range (Hz)	50/60Hz				
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 cooling
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)	310 x 563 x 129				310x608x129
Net weight (Kg)	17.8				18.8
STANDARDS					
Safety/EMC	As per IS/IEC standards				

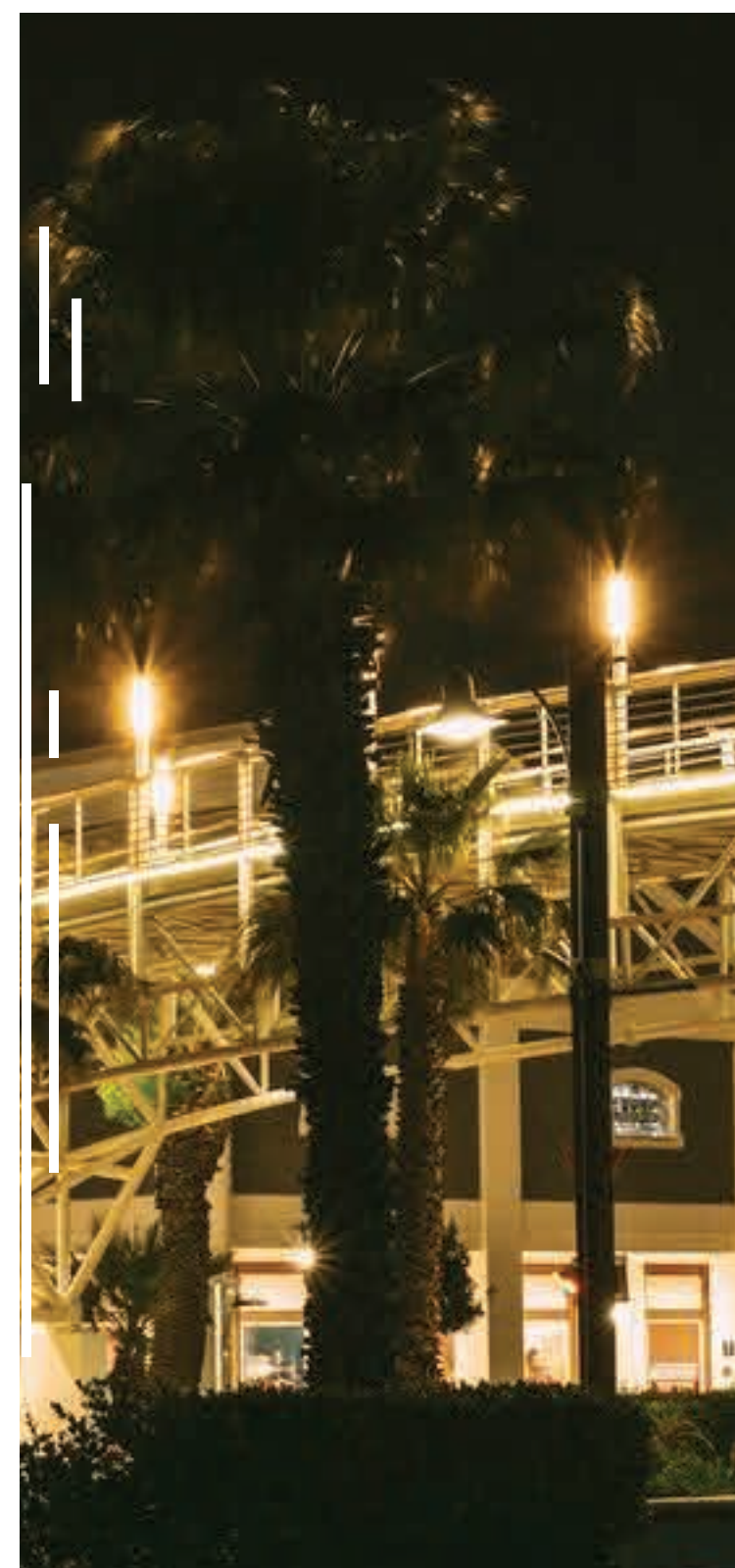
Technical specifications are subject to change without prior notice. | *Check availability of GSM or wifi dongle before ordering.

NXi GRID TIE | THREE PHASE INVERTER

Available Models
5kW - 110kW

Technical Specifications

Model No.	Nxi 315	Nxi 320	Nxi 325	Nxi 330	Nxi 350	Nxi 360	Nxi 380	Nxi 3100	Nxi 3110
Rated output power (kW)	15	20	25	30	50	60	80	100	110
INPUT DC									
Max. DC Input Power (kW)	22.5	30	37.5	45	75	90	120	150	165
Max. DC Input Voltage (V)	1100								
Start-up Voltage [V]	180				200		180		
MPPT Voltage range (V)	160-1000		200-1000				160-1000		
Max input current per MPPT (A)	2*32A		3*32A		4*28.5		3*40A+3*32A		4*40A+4*32A
Number of MPPT	2		3		4		6		8
Max Input Strings Number	4		6		12		12		16
OUTPUT (AC)									
Rated output power (kW)	15	20	25	30	50	60	80	100	110
Max. output power [kW]	16.5	22	27.5	33	55	66	88	110	121
Max. Output Current [A]	25.1	33.3	27.5	33	72.5	86.6	133.7	167.1	183.8
Grid Frequency range (Hz)	50/60Hz				47-52 or 57-62Hz		50/60Hz		
Power Factor (at rated output power)	0.8 ...1 ... 0.8								
Total harmonic distortion [THDI]	<2%		<3%			<2%		<3%	
Feed-in phase/connection phase	Three Phase								
EFFICIENCY									
Max. Efficiency	98.60%		98.5%		98.7%		98.5%		
MPPT Efficiency	99.5%		>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 2X 20Z								
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		<65dBA		
Designed Lifetime	>20 years								
Ingress Protection	IP66								
Dimensions (W*H*D) (mm)	310 x 608 x 219		647 x 629 x 252		630 x 700 x 357		1065x587x363	1183 x 585 x 363	
Net weight (Kg)	18.8	20	37		63		79.5	93	
STANDARDS									
Safety/EMC	As per IS/IEC standards								



LUMINOUS

HYBRID SOLAR SOLUTION

MAX+ HYB

3KVA - 6.2KVA

ELITE 3IN HYB

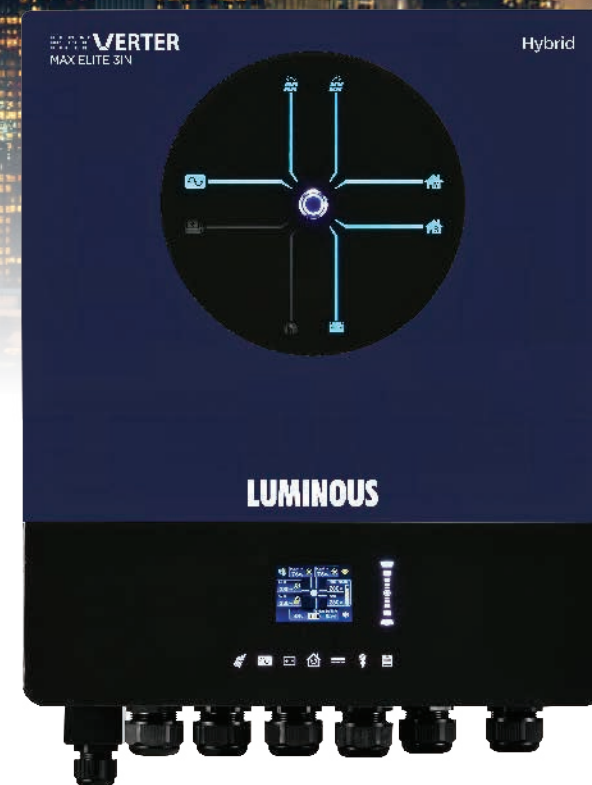
8KVA - 11KVA

MAX ELITE HYB

3.2KVA - 6KVA

SOLAR HPV

1.2KVA - 6.5KVA



RAYVERTER MAX+ HYBRID INVERTER

Available Models
3KVA - 6.2KVA

Technical Specifications

Model No.	3KVA/24V	4.2KVA/24V	6.2KVA/48V
Rated Power	3000VA/3000W	4200VA/4200W	6200VA/6200W
INPUT			
Voltage	230 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	230VAC±5%		
Output Power	3000W with PV & battery 2500W with battery only	4200W with PV & battery 4000W with battery only	6200W with PV & battery 5000W with battery only
AC Output No.	Single	Dual Outputs	Dual Outputs
Surge Power	6000VA	8400VA	12400VA
Efficiency (Peak)	93%		
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)		
Waveform	Pure sine wave		
Grid Export	Yes		
BATTERY			
Battery Voltage	24 VDC		48 VDC
Floating Charge Voltage	27 VDC		54 VDC
Overcharge Protection	32 VDC		63 VDC
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Open Circuit Voltage	450 VDC		500 VDC
Maximum PV Array Power	3000W	5000W	6500W
Maximum PV Input Current	13 A	18 A	18 A
MPP Range @ Operating Voltage	30 - 400 VDC	30 - 450 VDC	90 - 450 VDC
Maixmum Solar Charge Current	100 A	120 A	120 A
Maximum AC Charge Current	80 A	100 A	100 A
Maximum Charge Current	100 A	120 A	120 A
PHYSICAL & Safety			
Dimension, D x W x H (mm)	90 x 288 x 357	120 x 300 x 440	120 x 300 x 440
Net Weight (kgs)	7.0	9.0	10.0
Communication Interface	RS232/RS485(BMS)/WiFi in-built		
Safety standard	EN/IEC62109-1,EN/IEC62109-2		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		



WIDE PV INPUT RANGE



DUAL OUTPUT



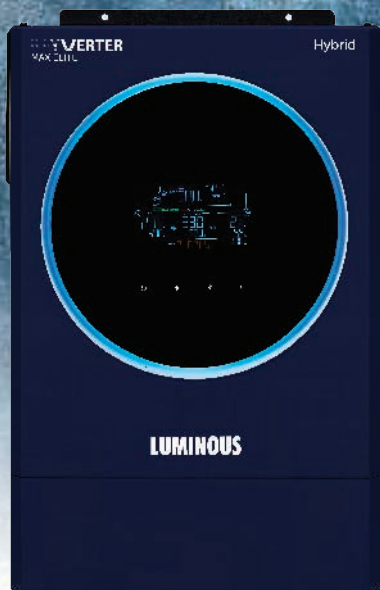
IN-BUILT WIFI
COMMUNICATION

RAYVERTER MAX+ HYB

IEC
CERTIFIED

Special Features:

- Built-in WiFi for monitoring your smart system via remote monitoring App
- Dual output for smart load management
- Wide PV input range, starting from 30VDC/60VDC
- Battery independent design for simple installation
- Maximum charging current upto 100A/120A based on models
- Battery equalization function to optimize battery performance and life-cycle.



**IN-BUILT WIFI
COMMUNICATION**



**PARALLEL OPERATION
WITH UP TO 9 UNITS**



DUAL OUTPUT

RAYVERTER MAX ELITE HYB

**IEC
CERTIFIED**

Special Features:

- Built-in WiFi for remote monitoring via App
- Parallel operation with up to 9 units
- Dual output for smart load management
- Battery independent design for simple installation
- LED ring with RGB lights, 4.3" coloured LCD display.
- Max PV input current of 27A

RAYVERTER MAX ELITE HYBRID INVERTER

Available Models
6KVA

Technical Specifications

Model No.	6KVA/48V
Rated Power	6000VA/6000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)
Frequency Range	55 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%
Overload capacity	5s@ $\geq$ 150% load; 10s@110%-150% load; 100ms @ $\geq$ 200% load
Efficiency (Peak)	93%
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)
Waveform	Pure sine wave
Grid Export	Yes
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	6000W
MPPT Range @ Operating Voltage	120 - 430 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	27A
Maximum Solar Charge Current	120A
Maximum AC Charge Current	120A
PHYSICAL & Safety	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	12.0
Communication Interface	USB/RS232/RS485/Dry-contact/ WiFi in-built
Safety standard	EN/IEC62109-1, EN/IEC62109-2
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

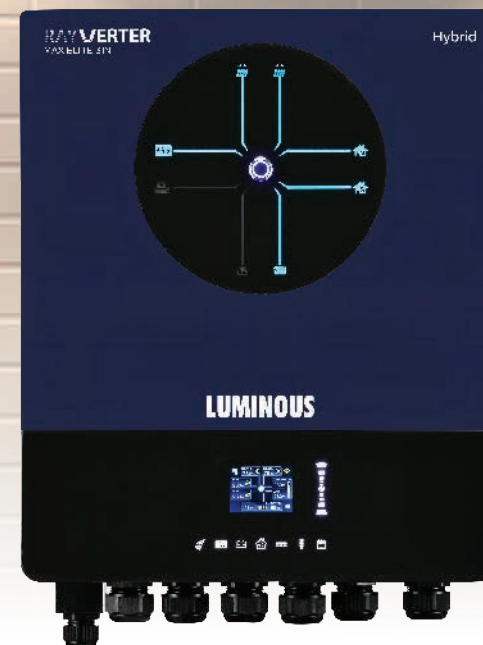
Technical specifications are subject to change without prior notice.

RAYVERTER MAX ELITE 3IN HYBRID INVERTER

Available Models
8KVA - 11KVA

Technical Specifications

Model No.	8KVA/48V	11KVA/48V
Rated Inverter Power	8000VA/8000W	11000VA/11000W
Parallel Capability	YES, upto 6 units	
INPUT (Utility & Generator Power)		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Computers);90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)	
Waveform	Pure Sine Wave	
Grid Export	Yes	
BATTERY		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	63 VDC	
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	10000W (5000W x 2)	12000W (6000W x 2)
MPPT Range @ Operating Voltage	90 - 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27A x 2 (MAX 40A)	
Maximum Solar Charge Current	150A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	150A	150A
PHYSICAL		
Dimension, D x W x H (mm)	145 x 438 x 553.6	
Net Weight (kgs)	18.4	
Communication Interface	USB/RS232/RS485/Dry-contact/BTS/Wi-Fi inbuilt	
SAFETY		
External current sensor port	Support GFCI	
Compliance Safety	EN/IEC 62109-1:2010, EN/IEC 62109-2:2011, IEC 61683:1999	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	



IN-BUILT WI-FI



PARALLEL OPERATION



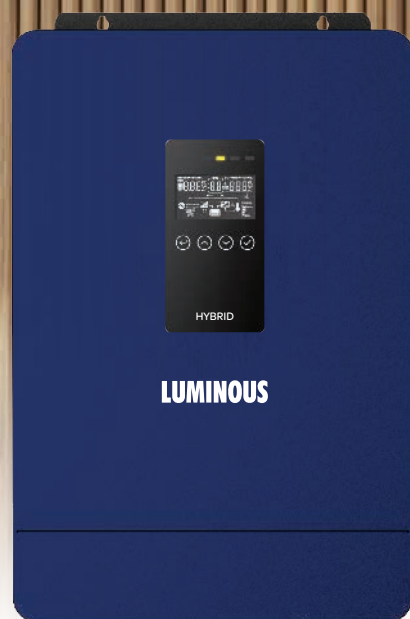
DUAL OUTPUT

RAYVERTER MAX ELITE 3IN HYB

Special Features:

- 3 Input Sources (PV/Grid/Generator) for better energy management
- Parallel operation with 6 units
- Maximum efficiency with Built-in meter calibration
- Battery independent design for simple installation
- Real time tracking of power flow through display indicators





LUMINOUS



**IN-BUILT WIFI
COMMUNICATION***



**BATTERY BMS
COMMUNICATION**



LCD DISPLAY PANEL

SOLAR HPV

Special Features:

- Pure sine wave MPPT solar inverter Built-in 60-120A solar charger
- Detachable Dust Cover for easy maintenance
- Reserved communication port (RS485) for BMS
- Monitor your smart system on the move via our monitoring App and In-built Wi-fi*
- Supports Lithium/Lead Acid Battery

**IEC
CERTIFIED**

SOLAR HPV HYBRID INVERTER

Available Models
1.2KVA - 6.5KVA

Technical Specifications

Model No.	1.2kW	3.6kW	5kW	6.5kW
AC INPUT				
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE			
Voltage Range (VAC)	90@280±3 (normal mode); 170-280±3 (UPS mode)			
Frequency (Hz)	50 / 60 (Auto Adaptive)			
AC OUTPUT				
Rated Capacity (kW)	1.2	3.6	5	6.5
Surge Power (kVA)	2.4	7.2	10	12
Voltage (VAC)	208 / 220 / 230 / 240			
Power Factor (PF)	1			
Frequency	50/60Hz±0.1%			
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)			
Wave Form	Pure Sine Wave			
Overload Capacity (Battery Mode)	60s@102%- load; 10s@110%-130 load; 3s@130%-150% load, 0.2s@150% load			
Max. Efficiency (Battery Mode)	90%@12VDC	92.7%@24VDC	93%@48VDC	93%@48VDC
Parallel Quantity	NA	NA	9	NA
CHARGER (PV / AC)				
Solar Charger Type	MPPT			
Max PV input current / power	14A / 1000W	18A / 5000W	18A / 6000W	28A / 9000W
MPPT Range@Operating Voltage (VDC)	20-100	40-450	120-450	60-450
Max PV Open Circuit Voltage (VDC)	125	500	500	500
Max PV Charge Current (A)	60	100	80	120
Max AC Charge Current (A)	60	100	80	120
Max. Charge Current (PV + AC) (A)	120	100	80	120
BATTERY				
Normal Voltage (VDC)	12	24	48	48
Floating Charge Voltage (VDC)	13.8	27	54	54
Overcharge Protection (VDC)	15	30.5	61	61
Battery Type	Lithium and Lead-acid			
INTERFACE				
HMI	LCD			
Interface	RS485 / RS232	RS485/RS232/USB/Dry Contact		RS485/USB/Dry contact/CT/Meter
Monitoring	NA			
GENERAL DATA				
Ingress Protection	IP20			
Operating Temperature	-10 °C - 50 °C			
Relative Humidity	5% - 95% (Non-condensing)			
Storage Temperature	-15 °C - 60 °C			
Net Weight (kg)	3.2	6.4	9.5	10
Dimensions (W*H*D)	330*226*92mm	490*306*115	510*306*115	508*338*136.5
Max. Operating Altitude	4000m (Derating above 100m)			

SOLAR HPV-IP66 HYBRID INVERTER

Available Models
6KVA

Technical Specifications

Model No.	HPV - IP66 6kva
Rated Power	6000VA/6000W
AC INPUT	
Voltage Range	176V - 280V
Power Factor (Adjustable)	0.8 leading-0.8 lagging
Frequency Range	50/60Hz
AC OUTPUT	
Nominal Voltage	230V, L+N+PE
Max. Output Current	26.1A
Max. Efficiency	0.98
Overload Capacity	110%,30s/120%,10s/150%,0.02s
Transfer Time	<20(ms)
THDu	<2%
Waveform	Pure Sine Wave
Grid Export	Yes
BATTERY	
Battery Voltage Range	40-60V
Nominal Battery Voltage	48
Maximum charge current	120A
Maximum discharge current	120A
Battery Type	Lithium/Lead Acid Battery
SOLAR CHARGER & AC CHARGER	
Max. PV Input Power	9000W
Max. PV Open Circuit Voltage	550V
MPPT Range@Operating Voltage	80-520 Vdc
Full Power MPPT Voltage Range	250-500Vdc
Start-up Voltage	90Vdc
MPPT Tracker/Strings	2/1
Max. Input Current per MPPT	19A/19A
Max. Short-circuit Current	25A/25A
SAFETY & COMPLIANCE	
DC Switch	Yes
DC Reverse Polarity Protection	Yes
DC/AC Surge Protection	Type III/Type III
AC Overvoltage Protection	Yes
Ground Fault Monitoring	Yes
Compliance Standard	EN/IEC 62109-1,EN/IEC 62109-2
PHYSICAL AND COMMUNICATION	
Dimensions(W*H*D)	485*527*230mm
Net Weight	24kg
Ingress Protection	IP66
Communication Interface	URS485/CAN/Wi-Fi inbuilt
OPERATING ENVIRONMENT	
Humidity	0-95%(Non-condensing)
Operating Temperature	-25-60°C
Max. Operating Altitude	4000m(Derating above 3000m)



IN-BUILT WIFI
COMMUNICATION



WIDE PV INPUT RANGE



ENHANCED SAFETY
PROTECTION

SOLAR HPV-IP66

Special Features:

- Dual MPPT trackers
- Connect solar panel upto 9000W
- Suitable for Outdoor Installation (Ingress Protection - IP66 protection)
- In-built DC/AC Surge protection with Type III SPD

IEC
CERTIFIED

LUMINOUS

DC SOLUTION

SOLAR CHARGE CONTROLLER

12V-6Amp, 12V/24V-10Amp, 12V/24V-20Amp



SOLAR CHARGE CONTROLLER

Available Models
60Amp-20Amp

Technical Specifications

Model No.	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		
Input Voltage range (Vmp)	15-21		
LOW VOLTAGE DISCONNECT			
A) By state of charge	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	2.5sq. mm	4 sq. mm	6sq. mm
Net weight	275 gms	300 gms	350 gms

Solar Estimation Chart

Solar Solution			Panel Connection combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar Charge Controller	DC Voltage	PV Panel Watt		
SCC1206	@12V	100Wp x 1 No.s	1 (S)	10
SCC1210	@12V	150Wp x 1 No.s	1 (S)	20
SCC1210	@24V	150Wp x 2 No.s	2 (S)	40
SCC1220	@12V	150Wp x 2 No.s	2 (P)	40
SCC1220	@24V	550Wp x 1 No.s	2 (P)	65



AUTOMATIC SELECTION
OF 12V/24V BATTERY



AESTHETIC & COMPACT
DESIGN



USB PORT

SOLAR CHARGE CONTROLLER



Special Features:

- Fuseless electronic & software controlled protection
- Maximum utilization of solar power
- Load controller with LVD
- 20% extra power handling capability

LUMINOUS

PV PANEL

MONOCRYSTALLINE PERC

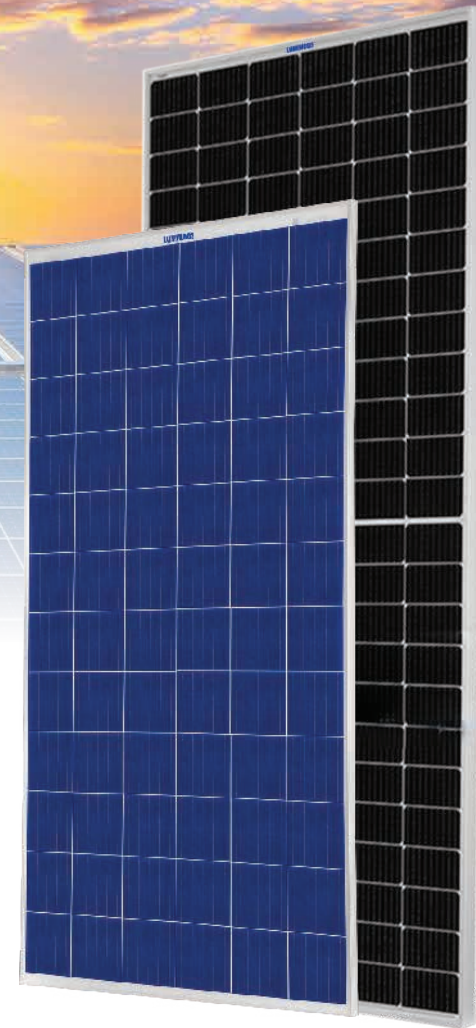
120W-240W

MONOCRYSTALLINE HALF-CUT

360W – 550W

TOPCON MONO-FACIAL/BI-FACIAL

550W – 700W



MONOCRYSTALLINE PERC PV MODULE

Available Models
120Wp - 240Wp

Technical Specifications

Model No.	LUM120MP-32	LUM150MP-32	LUM240MP-64
Cell Type	Mono PERC	Mono PERC	Mono PERC
No. of Cells	32	32	64
Maximum Power Pmax (Wp)	120	150	240
Maximum Power Voltage Vmp (V)	18.4	18.06	36.69
MAximum Power Current Imp (A)	6.52	8.31	6.54
Open Circuit Voltage Voc (V)	22.08	21.66	44.02
Short Circuit Current Isc (A)	6.91	8.81	6.94
Module Efficiency (%)	19.98%	18.76%	20.50%
Maximum System Voltage (V)	500Vdc	1000VDC	1000VDC
Maximum Series Fuse Rating	10A	10A	10A
Power Tolerance	±1.5%	±3%	±3%

*STC condition: 1000 W/m², 1.5AM and 25°C cell temperature.

Mechanical Data

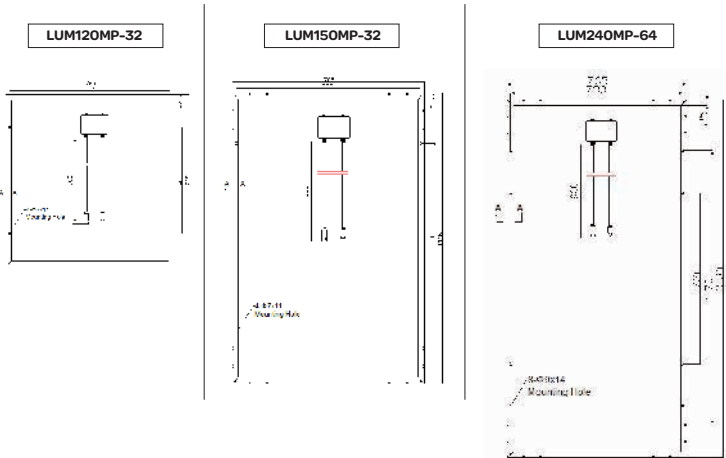
Module Dimensions (in mm)	785*765*25	1045*765*30	1530*765*30
Module Weight (kg)	5.5	8	12.2
IP Rating	IP65		
Cable	2.5mm², Length 700mm + MC4		4mm², Length 900mm + MC4
Frame	Anodized Aluminum Alloy		
Glass	3.2mm tempered glass		

Permissible Operating Conditions

Operating Temperature	-40°C-+85°C
Temp Coefficient of Voc	-0.28%/°C
Temp Coefficient of Isc	0.048%/°C
Temp Coefficient of Power	-0.36%/°C

Packing

Pieces/Pallet	87	60	36
Pieces/40'HC Container	2940	1680	1296



GUARANTEE ON PRODUCT
MATERIAL & WORKMANSHIP



LINEAR POWER
OUTPUT WARRANTY



ROBUST
MECHANICAL DESIGN

MONOCRYSTALLINE PERC

Special Features:

- Best in class conversion efficiency, delivering optimum output
- Improved Shade Tolerance for better performance in partially shaded conditions
- Advance Multi layer EVA encapsulation providing better module protection
- Optically, mechanically and electrically tested frame reduces resistance and improves output

MONOCRYSTALLINE HALF-CUT PV MODULE

Available Models
360Wp - 550Wp

Technical Specifications

Model No.	LUM360MHC-96	LUM410MHC-54	LUM450MHC-60	LUM500MHC-66	LUM550MHC-72
Cell Type	Mono Perc Half Cut	Mono Perc Half Cut	Mono Perc Half Cut	Mono Perc Half Cut	Mono Perc Half Cut
No. of Cells	96	108	120	132	144
Maximum Power P _{max} (Wp)	360	410	450	500	550
Maximum Power Voltage V _{mp} (V)	27.26	31.52	33.91	37.6	41.51
Maximum Power Current I _{mp} (A)	13.21	13.01	13.27	13.3	13.25
Open Circuit Voltage V _{oc} (V)	32.17	37.19	40.01	44.36	48.98
Short Circuit Current I _{sc} (A)	13.99	13.79	13.85	14.09	14.01
Module Efficiency (%)	20.06%	20.99%	20.79%	21.05%	21.28%
Maximum System Voltage (V)	1500VDC	1500VDC	1500VDC	1500VDC	1500VDC
Maximum Series Fuse Rating	20A	20A	25A	25A	30A
Power Tolerance	±3%	±3%	±3%	±3%	±3%

*STC condition: 1000 W/m², 1.5AM and 25°C cell temperature.

Mechanical Data

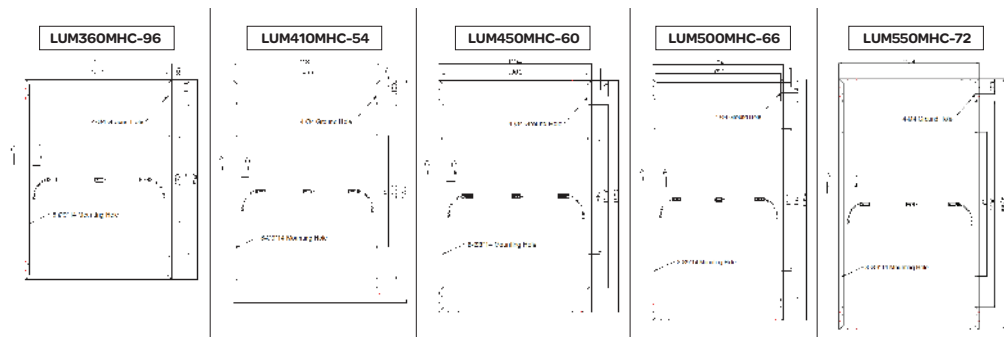
Module Dimensions (in mm)	1540*1134*30	1722*1134*30	1909*1134*30	2094*1134*30	2279*1134*30
Module Weight (kg)	18.2	22	24.5	26.3	28.6
IP Rating	IP67				
Cable	4mm ² , Length: (+)300mm/(-)300mm				
Frame	Anodized Aluminum Alloy				
Glass	3.2mm tempered glass				

Permissible Operating Conditions

Operating Temperature	-40°C~+85°C
Temp Coefficient of V _{oc}	-0.28%/°C
Temp Coefficient of I _{sc}	0.048%/°C
Temp Coefficient of Power	-0.36%/°C

Packing

Pieces/Pallet	36				
Pieces/40'HC Container	1008	936	864	792	720



MONOCRYSTALLINE HALF-CUT

Special Features:

- Multi Bus Bar Half-Cut Cell Technology, with lower internal current
- High Power Density with reduced resistive losses for greater power output
- Excellent Low light performance
- Strong light weight Aluminium frame design, offers high torsion resistance against wind load and snow loads



**GUARANTEE ON PRODUCT
MATERIAL & WORKMANSHIP**



**LINEAR POWER
OUTPUT WARRANTY**



**ROBUST
MECHANICAL DESIGN**

TOPCON MONO-FACIAL/BI-FACIAL PV MODULE

Available Models
550W - 700W

Technical Specifications

Model No.	LUM550TBF - 72	LUM580TBF - 72	LUM640TBF - 78N	LUM700TBF-66N
Cell Type	TOPCon	TOPCon	TOPCon	TOPCon
No. of Cells	144	144	156	132
Maximum Power P _{max} (Wp)	550	580	640	700
Maximum Power Voltage V _{mp} (V)	41.9	45.15	49.36	40.5
Maximum Power Current I _{mp} (A)	13.13	12.85	12.97	17.28
Open Circuit Voltage V _{oc} (V)	51.36	52.6	57.45	48.3
Short Circuit Current I _{sc} (A)	13.58	13.57	13.7	1832
Module Efficiency (%)	21.30%	22.50%	22.90%	22.50%
Maximum System Voltage (V)	1500VDC	1500VDC	1500VDC	1500VDC
Maximum Series Fuse Rating	25A	25A	25A	35A
Power Tolerance	0-5%	0-5%	0-5%	0-5%

Bi-Facial gain

5%	Max Power	578W	609W	672W	735W
	Efficiency	22.36%	23.57%	26.01%	28.45%
15%	Max Power	633W	667W	736W	805W
	Efficiency	24.48%	25.82%	28.49%	31.16%
25%	Max Power	688W	725W	800W	875W
	Efficiency	26.61%	28.07%	30.97%	33.87%

Mechanical Data

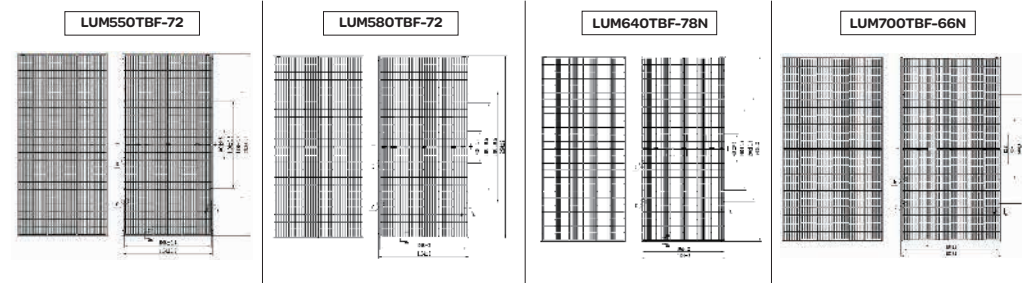
Module Dimensions (in mm)	2278*1134*30	2278*1134*30	2465*1134*30	2384*1303*30
Module Weight (kg)	31.5	31.5	34	38.1
IP Rating	IP68			
Cable	4mm ² , Length: (+)300mm/(-)300mm			
Frame	Anodized Aluminum Alloy			
Front Glass	2.0mm AR-coating heat-strengthened glass			
Back glass	2.0mm heat-strengthened glass			
Mechanical Load	5400Pa/2400Pa			
Application Class	Class A			

Permissible Operating Conditions

Operating Temperature	-40°C~+85°C			
Temp Coefficient of V _{oc}	-0.25%/°C	-0.25%/°C	-0.25%/°C	-0.24%/°C
Temp Coefficient of I _{sc}	0.045%/°C	0.045%/°C	0.045%/°C	0.04%/°C
Temp Coefficient of Power	-0.29%/°C	-0.29%/°C	-0.29%/°C	-0.30%/°C

Packing

Pieces/Pallet	37	37	37	34
Pieces/40'HC Container	740	740	592	612



**GUARANTEE ON PRODUCT
MATERIAL & WORKMANSHIP**



**LINEAR POWER
OUTPUT WARRANTY**



**ROBUST
MECHANICAL DESIGN**

TOPCON MONO-FACIAL/BI-FACIAL

Special Features:

- Double-sided power generation effectively reduces system BOS cost
- Module power increases 5-25% generally, bringing significantly lower LCOE and higher ROI
- More power generation by lower temperature coefficient and lower operating temperature
- Conventional frame design, suitable for various mounting modes



35⁺ Years of
EXCELLENCE

LUMINOUS

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