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Livguard Solar

Powering The Homes of Tomorrow

SMART SOLAR SOLUTIONS



www.livguardsolar.com

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THE SAR GROUP UNIVERSE

SAR Group is a 39-year young entrepreneurial organization with a legacy of starting and growing businesses while winning the trust of millions of consumers over the years. The success of SAR group is largely credited to 3 pillars – Innovation, Customer Centricity and Enduring Relationships built on mutual respect and trust with partners, consumers and employees.

Our focus is on creating products that are crafted to power the homes of tomorrow. We work in the areas of Energy Storage Solutions, E Mobility, IoT/Smart Homes, Purity, Health and Wellness, B2B e-commerce, Cleantech & Venture Capital, and Investments. Our purpose goes beyond keeping the lights on. It's about building dependable technology for the way India's homes are evolving, with solutions designed to make life simpler and smarter.

SAR

Livguard – POWERING THE HOMES OF TOMORROW
Livgreen – SOLID BIO FUEL
LECTRIX
LIVFAST
SDMC TRUST
Livguard – EV Drivetrain
lime
MOVING
Ncubate – Building Businesses Together
Livpure

THE STARS OF OUR STORY

6	5	3600+	35000+	28
R&D Centers	State-Of-The-Art Manufacturing Sites	Employees	Channel Partners	Overseas Markets

ABOUT LIVGUARD

Driven by innovation and an unwavering commitment to sustainability, Livguard continues to redefine the landscape of energy storage solutions. Offering an array of quality products including automotive batteries, inverters, and residential solar solutions, we're not just powering homes and businesses, but also supporting the world's shift to a cleaner future. We stand dedicated to deliver limitless energy, as we stride towards shaping a world where energy is accessible, efficient, and sustainable.

WHY LIVGUARD

- Standard Quality Of Products
- Pan India Service Presence
- On Demand Solution Certification
- Brand Assurance

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WHY CHOOSE SOLAR?

Lower electricity bills

Clean, renewable energy

Greater energy independence

Long-term savings

Sustainable living for the future

PM Surya Ghar: Muft Bijli Yojana

MAKE THE SWITCH TO SOLAR WITH GOVERNMENT SUPPORT



GOVERNMENT SUBSIDY OF

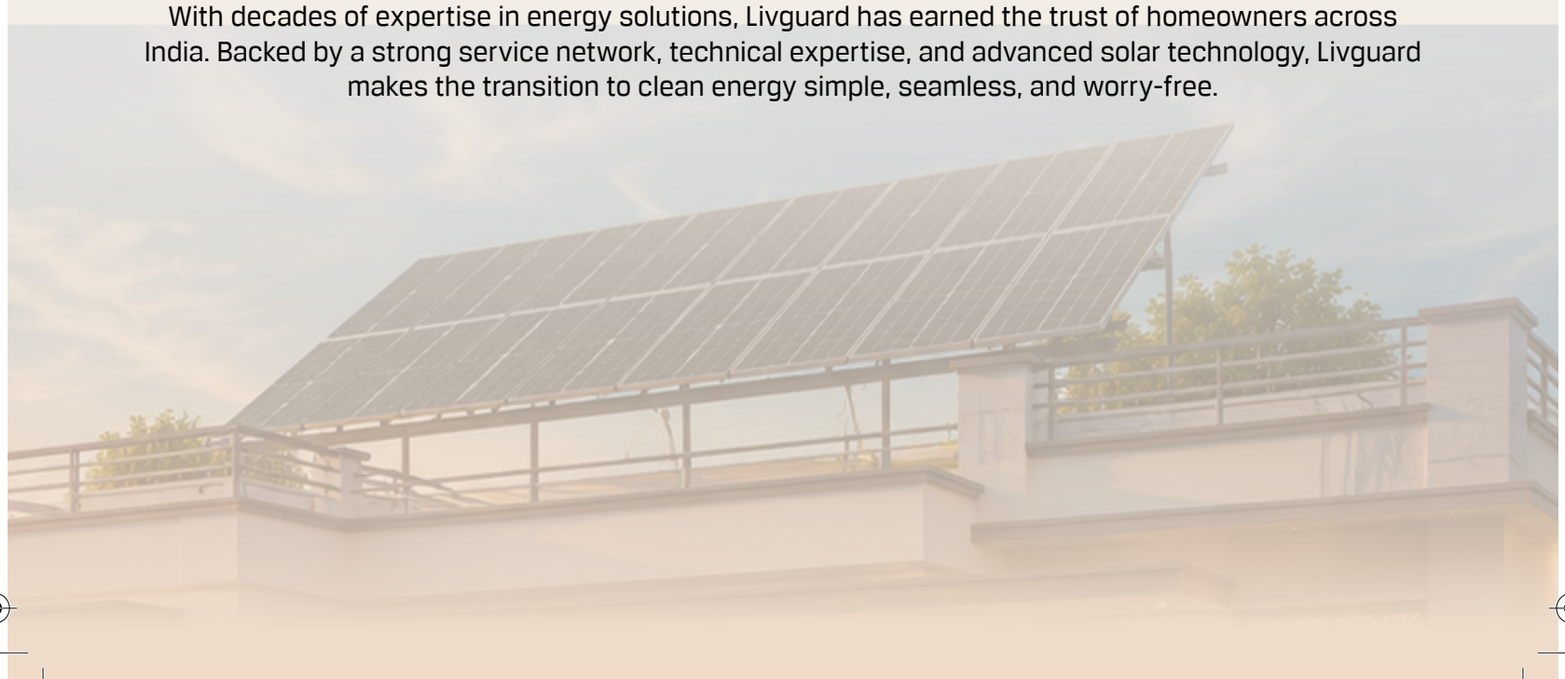
UP TO ₹78,000*

Eligible residential rooftop solar installations can avail a Central Government subsidy of up to ₹78,000 (for systems of 3 kW and above), helping homeowners reduce installation costs while enjoying faster returns and greater long-term savings.

LIVGUARD SOLAR -

Your Trusted Partner for Solar Journey

With decades of expertise in energy solutions, Livguard has earned the trust of homeowners across India. Backed by a strong service network, technical expertise, and advanced solar technology, Livguard makes the transition to clean energy simple, seamless, and worry-free.



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SOLAR PANELS

Livguard Solar Panels are available in Poly-crystalline, Mono PERC & TopCon solar cells, with BIS & IEC compliance ranging for 50Wp - 600Wp panels. Our Panels are ideally suited for residential and commercial applications

Positive Power Tolerance
- Ensures full energy harvesting
- Ensures better return on investment

Excellent Performance in low light
- High quality transparent glass

Suitable for Extreme Weather
- Tempered glass withstands dynamic
- Wind load of 2400 Pa & snow load of 5400 Pa

Potential-Induced Degradation (PID) Resistance Technology
- Minimze power losses
- Limited power degradation

12* YEARS PRODUCT WARRANTY | 30 YEARS PERFORMANCE WARRANTY**



*Applicable for 550wp and 600wp module
**Applicable for 600wp module

T&C Apply

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TECHNICAL SPECIFICATIONS

MODEL NAME	LGV12V50W
Peak Power Pmax (Wp)	50W
Maximum Voltage Vmpp(V)	20.10
Maximum Current Impp(A)	2.58
Open Circuit Voltage Voc (V)	24.09
Short Circuit Current Isc (A)	2.70
Maximum System Voltage	1500VDC
Max Rated Current Series (Fuse Rating)	20A
Solar Cell Size in mm	52X157
Nos. of Solar Cell Per Module	36

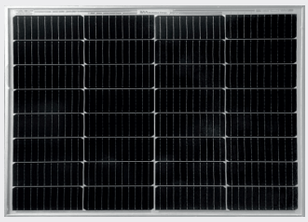
STC :1000W/m2 Irradiance, 25°C Cell Temperature, AM1.5G Spectrum according to EN 60904-3
Average relative effciency reduction of 〈 5% at 200W/m2 according to EN 60904-1

ENVIRONMENTAL DATA	
Tc of Open Circuit Voltage (ß)	-0.241%/°C ± 0.02
Tc of Short Circuit Voltage (α)	0.286%/°C ± 0.01
Tc of Power (Y)	-0.3217%/°C ± 0.02
NOCT	45±2°C
Temperature Range	-40°C to +85 °C
Limiting Reverse Current (Ir)	15A

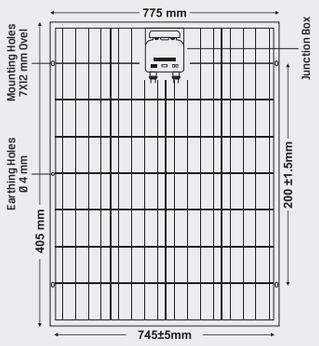
MECHANICAL DATA	
Length x Width x Height (± 1.5 mm)	50W: 405X775X34 mm
Junction Box	IP 65 rated with Bypass diodes
Application Class	Class A (Safety class II)
Substrate (Glass)	High transmission low iron tempered glass
Cells Encapsulant	EVA (Ethyelene Vinyl Acetate) - FC/UFC
Back Sheet	Composite Film - White
Frame	Silver Anodized Aluminum Frame with Twin Wall Profile
Mechanical Load Test	Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m2 Maximum diameter of 24 mm with Hail impact of 83 Km/h

WARRANTY AND CERTIFICATIONS	
Product Warranty	5 years
Performance Warranty	Linear Power Warranty: 25 years with 3% for 1st years degradation and 0.7% from year 2 to 25.
Approvals and certificates	BIS Certified as per IS/IEC Standards

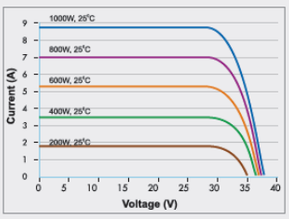
50W



REAR VIEW



IV CURVE



Technical Specifications are subject to change without prior notice

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TECHNICAL SPECIFICATIONS

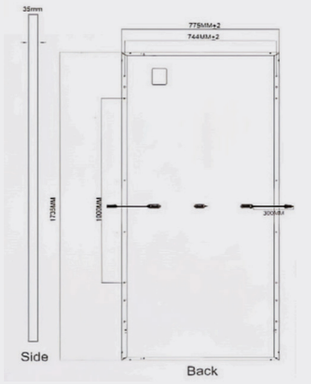
MODEL NAME	LGTPV12V275W
Electrical Parameter at STC	MONO-PERC HALF CUT
Capacikty Rating - Pmax(Wp)	275
Power Tolerance	± 2%
Rated Voltage - Vmp(V)	21.46
Rated Current - Imp(A)	12.82
Short Circuit Current - Isc(A)	13.39
Open Circuit Voltage - Voc(V)	25.09
Module Efficiency (%)	20.64
Solar Cells	72
Encapsulation	PID & UV Resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm,High Transmission, Tempered Glass
Back	White Backsheet
Dimensions	(L) 1735 mm X (W) 775 mm X (H) 35 mm
Weight	~17 Kg
J-box	IP 68 Certified, 2 Diodes, Split Junction Box
Mounting Holes (Y)	1000mm
Mounting Holes (X)	744mm
Max Fuse Rating	35A
Cable	4mm2, Solar Cable 300 mm length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow Load 5400 P a, Wind Load 2400 P a

PERMISSBLE OPERATING CONDITIONS	
Temperature Range	-40°C to +85 °C
NOCT	45±2°C
Maximum System Voltage	1000VDC

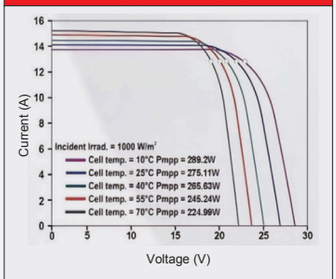
TEMPERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26%/°C
Temperature Coefficient (Isc)	0.045%/°C
Temperature Coefficient (Pmax)	-0.32%/°C

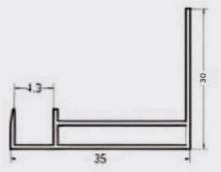
WARRANTY AND CERTIFICATIONS	
Product Warranty	5 years
Performance Warranty	Linear Power Warranty: 25 years with 3% for 1st years degradation and 0.7% from year 2 to 25.
Approvals and certificates	BIS Certified as per IS/IEC Standards

DRAWING (MEASUREMENTS ARE IN MM)



I-V CURVE AT STC

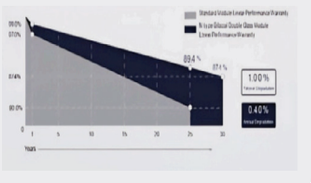




Anodized Al. Frame Section



LINEAR GRAPH



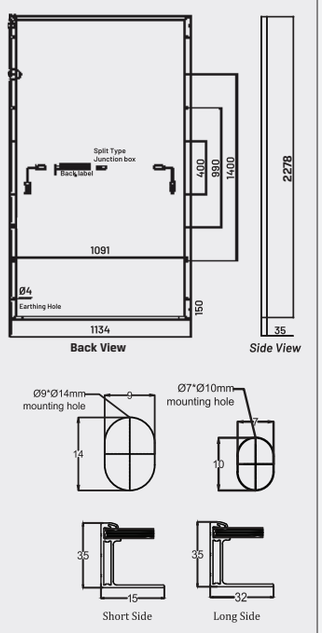
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TECHNICAL SPECIFICATIONS

MODEL NAME	LGV24VS550WB / LGV24CS550WBDCR	
ELECTRICAL PARAMETERS	**STC**	**NOCT**
Peak Power -Pmax (Wp)	550	410.96
Maximum voltage (Vmpp) (V)	42.14	38.92
Maximum current (Impp) (A)	13.08	10.56
Open circuit voltage (Voc) (V)	50.58	46.95
Short circuit current (Isc) (A)	13.59	11.09
Module Efficiency (%)	21.29	
Opera ng Temperature range (°C)	-40°C to 85°C	
Maximum system Voltage	1500 VDC	
Maximum series fuse rating	25 A	
Temperature coefficients of Isc (a)	0.048%/°C	
Temperature coefficients of Pmax (y)	-0.32%/°C	
Temperature coefficients of Voc (§)	-0.28%/°C	
Power Tolerance	0~+2%	
Nominal operating cell temperature (NOCT)	45± 2 °C	
Fire Safety	Class-C (Type 1)	
Application	Class-A	
Safety Class	Class-2	

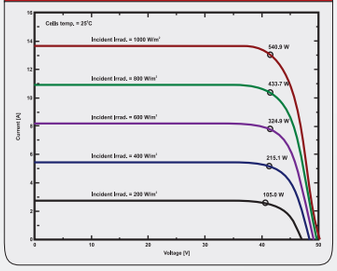
REAR VIEW



(All Dimensions in MM & Tolerance1.5mm)

ELECTRICAL PARAMETERS AT NOCT			
MEASUREMENT	**BIFACIAL GAIN**	**UNIT**	**550**
Maximum Power (Pmax)	5%	Wp	575
Module Efficiency		%	22.26
Maximum Power (Pmax)	10%	Wp	600
Module Efficiency		%	23.22
Maximum Power (Pmax)	15%	Wp	625
Module Efficiency		%	24.19

I-V CURVE



MODULE MECHANICAL DATA	
Cell Type	Type 72 Mono PERC (144 half cut cells)
Dimensions	2278X1134X35mm (LxWxH) ± 2 mm
Weight	28.00 kgs
Front Cover	3.2 mm High Transmission, Low iron, Tempered Glass, AR coated
Cell Encapsulant	EVA (Ethylene Vinyl Acetate) - F/C/UFC
Back sheet	Composite Film Transparent Back sheet
J-Box	IP68 Split type Junction box with individual bypass diodes
Cable	300mmx2nos solar cable, 4mm^2
Connectors	MC4 Compatible Connector IEC/UL Certified
Frame Material	Silver Anodized Aluminium frame with twin wall profile
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

WARRANTY AND CERTIFICATIONS	
Product Warranty	12 years
Performance Warranty	Linear Performance Warranty: 27 years with 1% for 1st years degradation and 0.5% from year 2 to 27

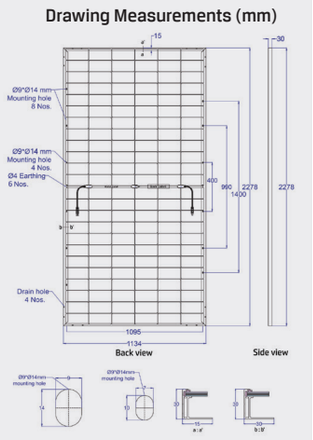
Technical Specifications are subject to change without prior notice

TECHNICAL SPECIFICATIONS

MODEL NAME	LGTPV600WBNTOP/LGTPV600WBNTOPDCR
ELECTRICAL DATA (STC)	
Peak Power Output -Pmax(Wp)	600Wp
Open Circuit Voltage-Voc(V)	53.0V
Maximum Power Voltage-Vmpp(V)	43.97V
Short Circuit Current-Isc(A)	14.63A
Maximum Power Current-Impp(A)	13.68A
Module Efficiency (%)	23.2%
ELECTRICAL DATA (NOCT)	
Peak Power Output -Pmax(Wp)	454Wp
Open Circuit Voltage-Voc(V)	50.2V
Maximum Power Voltage-Vmpp(V)	41.5V
Short Circuit Current-Isc(A)	11.43A
Maximum Power Current-Impp(A)	10.94A

(STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature
(NOCT) - 800 W/m2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s

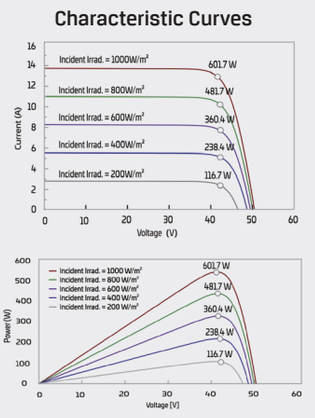
REAR VIEW



TOTAL POWER (FRONT+BACK)		
Peak Power (Wp)	With 5% Gain	630Wp
Efficiency nm(%)		24.39%
Peak Power (Wp)	With 15% Gain	690Wp
Efficiency nm(%)		26.67%
Peak Power (Wp)	With 25% Gain	750Wp
Efficiency nm(%)		29.03%

"Bifacial Gain: The additional gain from the back side compared to the power of the front side at the STC. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground."

I-V CURVE



MECHANICAL DATA	
Solar Cells Per Module (Units)	144 Half-cut
Length(L) x Width(W) x Thickness(T)	2278 X 1134 X 30 mm
Weight of Module (Kg)	33.4 ± 0.5 Kg

SOLAR CELL TYPE	N-TYPE 16BB TOPCON
Junction Box	IP 68, 3 Diodes Split junction box
Connector	MC4 Type
Front Cover (Glass)	2 mm AR Coated semi tempered glass
Back cover (Backsheet)	2 mm Semi tempered glass
Encapsulant	PID free & UV Resistant
Frame	Anodized aluminium alloy
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load	Snow-5400 Pa / Wind-2400 Pa
Cable Type	4 mm^2 & ±400mm2 length or Customised

TEMPERATURE RATING	
NOCT	41°C ± 3°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature coefficient of Isc	0.048/°C
Operating Temperature Range	-40°C to + 85 °C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A
WARRANTY AND CERTIFICATIONS	
Product Warranty	12 years
Performance Warranty	Linear Performance Warranty: 30 years with 1% for 1st year degradation and 0.45% from year 2 to 30

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SOLAR BATTERY

Livguard Solar Batteries are C10 rated deep cycle batteries. Innovative Super Tuff 3D design and extra thick tubular plates give longer backup & battery life.

Super Tuff 3D Grid
- Industry's 1st 3D design with double Side pasting
- Ensures longer battery life

Superior Life Cycle
- Ensures longer battery service life

Tuff Futuristic Design
- Advanced premium design
- Robust high quality durable material

Ultra Low Maintenance
- Topping up frequency – once in 3 Months



TECHNICAL SPECIFICATIONS

MODEL NAME	NOMINAL VOLTAGE (V)	CAPACITY (AH)	FILLED WEIGHT WITH ACID ± 3% (KG)	BATTERY DIMENSIONS(MM)			FREE REPLACEMENT WARRANTY (MONTHS)	PRO RATA WARRANTY (MONTHS)
				LENGTH ± 3% MM	WIDTH ± 3% MM	HEIGHT ± 3% MM		
SFi5060PST	12	50	23.5	410	175	235	36	24
SFi11060PTT	12	110	52.5	505	189	410	36	24
SFi15072PTT	12	150	54	505	189	410	36	36
SFi15060TTN	12	150	61.5	505	189	410	60	-
SFi16572PTT	12	165	59	505	189	410	36	36
SFi20060TT	12	200	64	505	189	410	60	-
SFi20072TTN	12	200	72	505	189	410	36	36
SFi22572PTT	12	225	66.5	505	189	410	36	36

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LITHIUM-X 3000

An integrated energy storage solution combining a pure sine wave inverter, $LiFePO_4$ battery, advanced Battery Management System (BMS) and intelligent charging technology within a single compact unit.

LiFePO4 Battery with Inbuilt BMS

Integrated smart BMS ensures advanced protection, enhanced safety and extended battery life.

Faster Charging

Delivers rapid battery charging to ensure quick power availability.

MPPT Technology

Maximizes solar energy harvesting for higher charging efficiency and output.

Wi-Fi Enabled

Enables real-time monitoring and control via app.



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TECHNICAL SPECIFICATIONS

MODEL NAME		LITHIUM-X 3000
APPARENT POWER(VA)		2500VA
ACTIVE POWER(W)		2000W
AC Input	Rated Input Voltage	220V AC
	Rated Input Current	13A
	Frequency	50Hz
Input Vol. Range (UPS Mode)	Under Voltage Cut-off	180±10V
	Under Voltage restoration	190±10V
	Overvoltage Cut-off	260±10V
	Overvoltage restoration	250 ±10V
Input Vol. Range (ECO Mode)	Under Voltage Cut-off	140±10V
	Under Voltage restoration	150±10V
	Overvoltage Cut-off	290±10V
	Overvoltage restoration	280 ±10V
Output	Rated Output Voltage (UPS Mode)	220V AC
	Rated Output Current	9.2A ± 1 Amp.
	Output Inrush Current (Peak)	26A
	Frequency (UPS/Inverter mode)	50± 0.5Hz.
	Efficiency	≥ 80%
	Output Voltage Harmonic Distortion(%)	≤ 5%
	Output Current Harmonic Distortion(%)	≤ 5%
	Changeover Time (UPS Mode)	〈20 ms
Solar	PV Panel	2500W
	MPPT Current	50A
	Max Input Voltage	120VDC
	MPPT Voltage Range	60V-110VDC
	Nominal Voltage	80VDC
	Solar Modes	SOLAR MODE (SOLAR ON + GRID OFF)
		BATTERY SAVER MODE (SOLAR ON + MAINS ON)
Battery	Type/Voltage	25.6V 100Ah
	Charging Current	22A
	Max discharging current	95A @ 24V DC
	Input Ripple Voltage & Current	≤ 20 %
	Number	1 N
	Protection	Low Battery, Reverse Polarity, Mains Reset
LCD Display	Charging ON	Battery Symbol ON (Bar Graph as per Battery Status)
	Charged	Battery Symbol OFF (Bar Graph Steady)
	Inverter/ Switch ON	Mains Symbol OFF
	Low Battery Pre-alarm	Warning! Battery Low
	Low Battery	Battery Low
	Overload	Overload!
	SOLAR mode ON	Solar Symbol + Solar Charging ON
	Power Switch OFFt	UPS is Switched OFF
	Over Temperature (PCB)	Fault! Over Temperature 1
	Over Temperature (Transformer)	Fault! Over Temperature 2
	No Load Shut-down	No Load Shutdown!

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Audio Alarm	Low battery Pre-alarm	5 Second beep on every 1 minute.
	Low Battery	5 Second continuous beep.
	Over load & Short Circuit	5 Second continuous beep.
	Over load Pre-alarm	0.5 Second beep on every 1 second.
	UPS ON	0.5 Second beep on every 3 second -5 times.
	Mains Sensing	Single Beep of 2 Second.
	Regulated/Unregulated Mode Selection	Single Beep of 0.5 Second.
	Over temperature	5 Second Continuous Beep.
Environmental	Protective Class	Class 1
	Ingress Protection Rating	IP 20
	Noise Emission Level	≤ 60db
	Operating Temperature	0-45°C Made in India
	Relative Humidity	0- 95% RH Compatible
	Max. Altitude	2000m

*Specifications are subject to change without prior notice due to continuous product improvement

APPLICATIONS



Houses/Apartments & Flats



Small shop/Kirana store



Clinics & medical Shops



Beauty Salons & Parlours



Small offices/Cabin



Coaching/Tuition Canters

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LITHIUM-XTN-SOL

12.8V/100Ah-150Ah | 25.6V/150Ah-280Ah

Designed for superior performance and longevity, the LITHIUM-XTN-SOL battery range delivers up to 6X longer cycle life than conventional alternatives. Its advanced Smart BMS ensures optimal safety and efficiency while 2X faster charging minimizes downtime. Smart connectivity allows convenient real-time monitoring through the LivMonitor 360 App.

Ultra-Long Cycle Life with premium a grade Cells

Around 6X longer cycle life and consistent performance.

Smart BMS (Battery Management System)

Built-in advanced BMS provides comprehensive protection.

2X Faster Recharge

Ready Again in 2-3 hours.

Bluetooth-Enabled Monitoring Via LivMonitor 360 App

Monitor your lithium battery's health, performance, and status in real time using the Liv Monitor 360 App.

5* YEAR PRODUCT WARRANTY



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TECHNICAL SPECIFICATIONS

MODEL NAME	LITHIUM-XTN-SOL			
Basic Parameters	12.8V 100Ah	12.8V 150Ah	25.6V 150Ah	25.6V 280Ah
Nominal Energy	1280Wh	1920Wh	3840Wh	7168Wh
Usable Energy (90%)	1152Wh	1728Wh	3456Wh	6451Wh
Rated Voltage	12.8V		25.6V	
Working Voltage Range	11.6V-14.0V		23.2V-28.0V	
Maximum Charging Current	50A	75A	75A	50A
Maximum Discharging Current	50A	75A	75A	125A
Peak Discharging Current	70A (10 Sec)	100A(10 Sec)	100A (10 Sec)	150A (10 Sec)
Battery Pack Charging Profile	CC/CV			
Round Trip Efficiency	≥95%			
Cell Configuration	4S-1P		8S-1P	
Stackable or Parallel Operation Supported	N/A			
Working Temperature	Charge-0~55ºC, Discharge 5~60ºC			
Storage Temperature & Humidity	15-35ºC			
Built in BMS & Protections	Over Voltage Protection, Under Voltage Protection, Over Temperature Protection Short Circuit Protection, Over Charge Protection, MCCB Protection, Over Discharge Protection			
Weight (±2Kg)	14.5Kg	22Kg	40Kg	70Kg
Dimensions (DxWxH)	205x395x204	254x345x209	385x485x283	275x470x596
Warranty	5 Years			
IP Rating	IP20			
Terminal Size	M6 Terminal & Others			
Status Indicators	N/A	N/A	N/A	N/A
Display	N/A	N/A	N/A	N/A
Commumication	Bluetooth	Bluetooth	Bluetooth	Bluetooth/CAN/RS485
Mounting	Table Top	Table Top	Table Top	Table Top

Note:
1. Due to continuous improvement, the company reserves the right to change product specifications and look without prior notice.
2.Above models are work in standalone with solar inverters. Never connect these modules either in series or parallel configuration.



LITHIUM-XL

51.2V/100Ah-280Ah

Designed for superior performance and longevity, Lithium XL battery range delivers up to 6X longer cycle life than conventional alternatives. Its advanced Smart BMS ensures optimal safety and efficiency while 2X faster charging minimizes downtime. It supports up to 15 battery modules in parallel for scalable energy and power needs.

Ultra-Long Cycle Life with premium a grade Cells

Around 6X longer cycle life and consistent performance.

Smart BMS (Battery Management System)

Built-in advanced BMS provides comprehensive protection.

2X Faster Recharge

Ready Again in 2-3 hours.

Flexible Capacity Expansion

Supports 1–15 battery modules in parallel for scalable energy and power needs.

5* YEAR PRODUCT WARRANTY



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TECHNICAL SPECIFICATIONS

SERIES	LITHIUM-XL-5.1	LITHIUM-XL-7.5	LITHIUM-XL-15
Model	**LG51V100LIXL5.1**	**LG51V150LIXL7.5**	**LG51V300LIXL15**
Rating	51.2V -100Ah	51.2V -150Ah	51.2V -280Ah
Nominal Energy	5120Wh	7680Wh	14336Wh
Usable Energy (90%)	4608Wh	6912Wh	12902.4Wh
Rated Voltage	51.2 V		
Working Voltage Range (2.9V-3.5V)	46.4 V~ 56.0 V		
Standard Charging Current (Amp)	50	75	140
Standard Discharging. Current (Amp)	50	75	140
Peak Discharging Current (Amp)	70 (10 sec.)	100 (10 sec.)	200 (10 sec.)
Battery Pack Charging Profile	CC/CV		
Round Trip Efficiency	≥ 95%		
Cell Configuration	16S-1P		
Stackable or Parallel Operation Supported	Yes, max up to 15 units		
Working temperature Range	Charge 0°C ~ +50°C, Discharge 0°C -60°C		
Storage Temerature	15°C~35°C		
Self-Discharge Rate	〈3% per month		
Built in BMS & Protections	Over Voltage Protection, Under Voltage Protection, Over Temperature Protection Short Circuit Protection, Over Charge Protection, MCCB Protection, Over Discharge Protection		
Warranty	5 Years		
Weight ± 2 Kg	53Kg	77Kg	140Kg
Dimensions (DxWxH)	206x435x630	200x410x910	293x528x881
Mounting	Wall Mounted	Floor Mounted	
Status Indicators	SOC / ALARM / ON		
Display	LED status indicator, LCD display		
Communication Interface	RS485, CAN		
Terminal Size	M6 Terminal		
Address switch	For Single / multiple in parallel		
Recommended Operative Environment	Indoor		

Note: Due to continuous improvement, the company reserves the right to change product specifications and look without prior notice.



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SunVolt

SunVolt Solar inverter series smartly utilizes both solar power and grid to run your home appliances efficiently. Equipped with a Heavy Duty Solar Charge Controller, it ensures maximum power extraction from solar panels, significantly reducing your electricity bills.

Compatible with 24V Solar Panels

Efficient solar inverter, seamlessly compatible with 24V solar panels

Smart Solar Modes for Maximum Savings

Normal Mode,
Saving Mode,
Max Saving Mode

Faster Battery Charging

Provides maximum battery charging current from grid

User Friendly LCD* Display

Track solar generation, alarms & system performance with ease

3* YEAR PRODUCT WARRANTY

Li-ION BATTERY COMPATIBLE

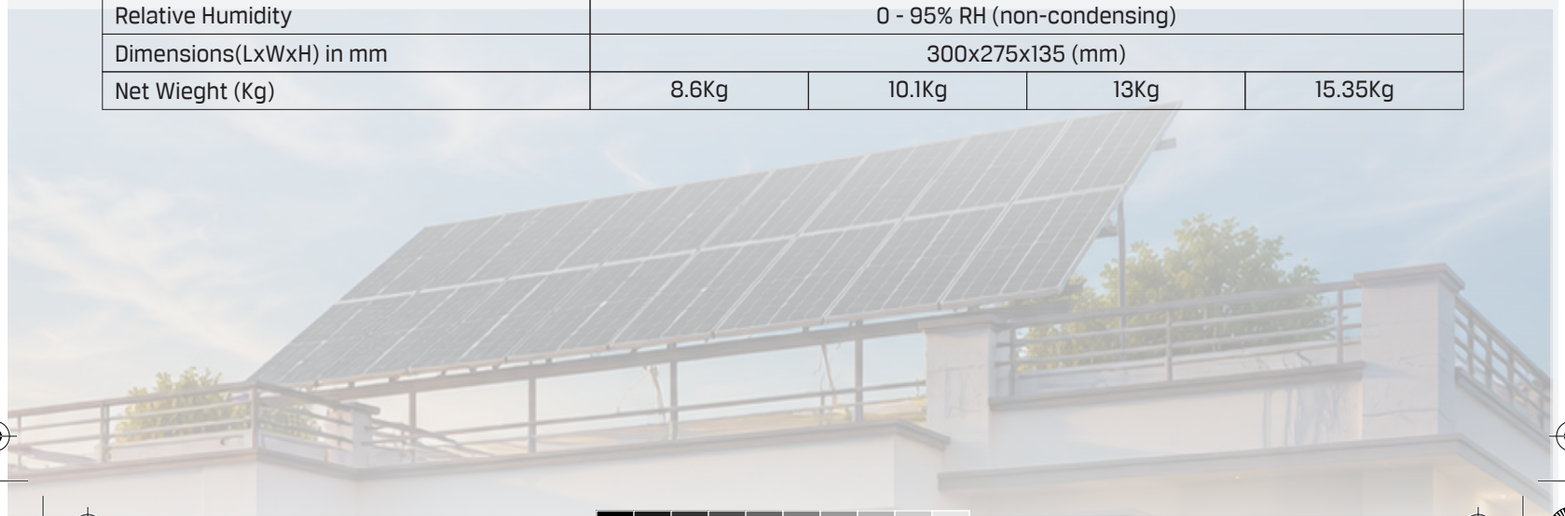


*LCD display depand upon model. Refer next page for more details.

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TECHNICAL SPECIFICATIONS

MODEL NAME	SUNVOLT 975+	SUNVOLT 1175+	SUNVOLT 1575+	SUNVOLT 1875+
Capacity (VA)	700 VA	850 VA	1100 VA	1500 VA
Nominal Battery Voltage (Vdc)	12 V			24 V
Output Waveform	Pure Sine Wave			
Switching Element	MOSFET			
SOLAR PV INPUT				
Technology	PWM			
Charge Controller Rating (Amps.)	40A	50A	65A	50A
Maximum PV Power	700Wp	900Wp	1100Wp	1500Wp
Maximum Input Voltage (Voc)	55V			60V
GRID INPUT				
Input Supply	220V Single Phase			
Operating Voltage Range (Eco Mode)	100V-300V			
Operating Voltage Range (UPS Mode)	180V-260V			
OUTPUT				
Output Voltage	220V Single Phase			
Output Frequency Battery Mode	50 ± 0.5 Hz			
Changeover Time (UPS Mode)	〈20ms			
USER SELECTABLE SWITCHES				
Solar Mode Selections	Normal (Mode 1): Solar + Grid Charging Saving (Mode 2): Solar + Conditional Grid Charging Max Saving (Mode 3): Solar + Grid Charging and Intelligence			
Battery Type Selections	Tubular/Flat Plate/SMF			
BATTERY				
Number of Batteries	1N-12V	1N-12V	1N-12V	1N-12V
Battery Charging Current through Grid	22A			
Type of Battery	Tubular/SMF/Lithium			
OVERLOAD, PROTECTION, LCD DISPLAY & USER INTERFACE				
Overload Capacity	〉105%			
Protection	Low Battery Pre-Alarm, Low Battery, Overload, Short Circuit, Overload Pre-Alarm, Over Temperature, No Load Shutdown, Reverse Polarity, PV Reverse			
DISPLAY INDICATIONS				
LED INDICATIONS	Mains ON (LED 1- Steady), Charging (LED 2- Steady), Charging Off (LED 2- Off), Inverter ON (LED 3- Steady), Low Battery (LED 5- Blinks), Low Battery (LED 5-Steady), Overload (LED 4- Blinks), Solar Mode (LED 6- Steady), Switch ON indication ready,LED 4 and LED 5 (OL+Low Bat) Steady, LED 1 + LED 4 + LED 5 (Mains+OL+Low Bat) Blinks, LED 3- Blinks			
LCD DISPLAY	Mains ON, Daily & Total Solar Power Generation, Solar Power, Solar Modes, Battery Type, Load %, ECO/UPS Mode, Solar Max Utilization, Low Battery Pre-alarm, Low Battery Trip, Overload Warning with Pre-alarm, Overload Trip, No Load Shutdown, Short Circuit, Over Temperature, System Error			
GENERAL				
Operating Temperature	0°C to 45°C			
Relative Humidity	0 - 95% RH (non-condensing)			
Dimensions(LxWxH) in mm	300x275x135 (mm)			
Net Wieght (Kg)	8.6Kg	10.1Kg	13Kg	15.35Kg



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TECHNICAL SPECIFICATIONS

MODEL NAME		SUNVOLT 2675+	SUNVOLT 3875+
APPARENT POWER(VA)		2000VA	3000VA
ACTIVE POWER(W)		1600W	2400W
AC Input	Rated Input Voltage	220V AC	
	Rated Input Current	10.5A	14.5A
	Frequency	50Hz	50Hz
	Input Inrush Current (Peak) & Duration	16A @ 10mS	21A @ 10mS
Input Vol. Range (UPS Mode)	Under Voltage Cut-off	180±10V	
	Under Voltage restoration	190±10V	
	Overvoltage Cut-off	260±10V	
	Overvoltage restoration	250 ±10V	
Input Vol. Range (ECO Mode)	Under Voltage Cut-off	140±10V	
	Under Voltage restoration	150±10V	
	Overvoltage Cut-off	290±10V	
	Overvoltage restoration	280 ±10V	
Output	Rated Output Voltage (UPS Mode)	220V AC	
	Rated Output Current	7.2A ± 0.3 Amp.	11.2A ± 0.3 Amp.
	Max Output Over Current Protection	8.5A± 0.3Amp.	12.5A± 0.3Amp.
	Max Output Fault Current (RMS)	12A	17A
	Output Inrush Current (Peak)	21A @ 1mS	30A @ 1mS
	Frequency (UPS/Inverter mode)	50± 0.5Hz.	
	Efficiency	≥ 82%	≥ 85%
	Output THD of Current & Voltage	≤ 5%	≤ 5%
	Changeover Time (UPS Mode)	⟨20 ms	
Solar	PV Panel	2000W	3000W
	PV Input Ripple Voltage & Current	≤ 10% of PV Max Input Voltage & Current	
	PV Current	50A	55A
	Max Input Voltage	55VDC	
	PV Voltage Range	18V-50VDC	
	Nominal Voltage	45VDC	35VDC
	Solar Modes	PCU MODE (SOLAR ON + GRID OFF) BATTERY SAVER MODE (SOLAR ON + MAINS ON)	
Battery	Type/Voltage	100Ah-220Ah Tubular, SMF and Lithium	
	Charging Current	Nominal:12A. User Settable(4A-25A)	
	Number	2N-12N	
	Protection	Low Battery, Reverse Polarity, Mains Reset	
LCD Display	Charging ON	Battery Symbol ON (Bar Graph as per Battery Status)	
	Charged	Battery Symbol OFF (Bar Graph Steady)	
	Inverter/ Switch ON	Mains Symbol OFF	
	Low Battery Pre-alarm	Warning! Battery Low	
	Low Battery	Battery Low	
	Overload	Overload!	
	SOLAR mode ON	Solar Symbol + Solar Charging ON	
	Power Switch OFF	UPS is Switched OFF	
	Over Temperature (PCB)	Fault! Over Temperature 1	
	Over Temperature (Transformer)	Fault! Over Temperature 2	
	No Load Shut-down	No Load Shutdown!	

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Audio Alarm	Low battery Pre-alarm	5 Second beep on every 1minute.	
	Low Battery	5 Second continuous beep.	
	Over load & Short Circuit	5 Second continuous beep.	
	Over load Pre-alarm	0.5 Second beep on every 1 second.	
	UPS ON	0.5 Second beep on every 3 second -5 times.	
	Mains Sensing	Single Beep of 2 Second.	
	Regulated/Unregulated Mode Selection	Single Beep of 0.5 Second.	
	Over temperature	5 Second Continuous Beep.	
Environmental	Protective Class	Class 1	
	Ingress Protection Rating	IP 20	
	Mass of Equipment	17.92 kg	30.5 kg
	Operating Temperature	0-45^{o}C	
	Max Altitude	2000m	
	Noise Emission Level	≤ 60db	
	Relative Humidity	0- 90% RH Compatible	

*Technical Parameters are subject to change without any prior notice.

INVERTER & LITHIUM BATTERY COMBO		
RATING	**INVERTER MODEL**	**LITHIUM BATTERY OPTION**
700VA/12V	SunVolt 975+	-
850VA/12V	SunVolt 1175+	12.8V/100Ah-150Ah
1100VA/12V	SunVolt 1575+	12.8V/150Ah
1500VA/24V	SunVolt 1875+	25.6V/150Ah-280Ah
2000VA/24V	SunVolt 2675+	25.6V/150Ah-280Ah
3000VA/24V	SunVolt 3875+	25.6V/150Ah-280Ah

*700 VA model is not compatible with Lithium-ion batteries.

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SunVolt

ADVANCE MPPT PCU

Solar MPPT inverter series smartly utilizes both solar power and grid to run your home appliances efficiently. Equipped with a Heavy Duty Solar Charge Controller, it ensures maximum power extraction from solar panels, significantly reducing your electricity bills.

Advanced MPPT Technology

Up to 35% higher efficiency than PWM controllers

Smart Solar Modes for Maximum Savings

Normal Mode,
Saving Mode,
Max Saving Mode

Faster Battery Charging

Provides maximum battery charging current from grid

User Friendly LCD Display

Track solar generation, alarms & system performance with ease

5* YEAR PRODUCT WARRANTY

Li-ION BATTERY COMPATIBLE



*In sunvolt 3624M+ model warranty is 3 years.

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TECHNICAL SPECIFICATIONS

MODEL NAME		SUNVOLT 3624M+	SUNVOLT 5048+	SUNVOLT 10120M+
APPARENT POWER (VA)		3000VA	5000VA	10000VA
ACTIVE POWER (W)		2400W	4000W	8000W
AC Input	Rated Input Voltage		220V	230V AC
	Frequency		50Hz	
Input Vol. Range (UPS Mode)	Under Voltage Cut-off		180±10V	
	Under Voltage Restoration		190±10V	
	Overvoltage Cut-off		260±10V	
Input Vol. Range (ECO Mode)	Under Voltage Cut-off		140±10V	
	Under Voltage Restoration		150±10V	
	Overvoltage Cut-off		290±10V	
Output	Rated Output Voltage (UPS Mode)		220V AC	230V AC
	Rated Output Current	11.5A ± 0.5 Amp.	18A ± 1 Amp.	35A ± 1 Amp.
	Frequency (UPS/Inverter mode)		50± 0.5Hz.	
	Efficiency		≥ 85%	
	Changeover Time (UPS Mode)		⟨20ms	
Solar	Max PV Power	3000W	5000W	10000W
	MPPT Current		50A	
	Max Input Voltage	120VDC	240VDC	600VDC
	MPPT Voltage Range	60VDC - 110VDC	100VDC - 220VDC	180VDC - 540VDC
	Nominal Voltage	80VDC	180V	350V
	Solar Modes	PCU MODE (SOLAR ON + GRID OFF) BATTERY SAVER MODE (SOLAR ON + MAINS ON)		
Battery	Battery Type	Tubular, SMF and Lithium		Tubular, SMF and Local
	Battery Capacity	100Ah-220Ah		100Ah-220Ah
	Charging Current	Nominal:12A. User Settable(4A-25A)	22A	25A
	Number	2N-12V	4N-12V	10N-12V
	Protection	Low Battery, Reverse Polarity, Mains Reset		
LCD Display	Charging ON			
	Charged			
	Inverter ON			
	Low Battery Pre-alarm			
	Low Battery			
	Overload			
	SOLAR mode			
	Power Switch ON Indication			
	Over Temperature (PCB)			
	Over Temperature (Transformer)			
	No Load Shut-down			
Alarm	Low battery Pre-alarm			
	Low Battery			
	Over load & Short Circuit			
	Over load Pre-alarm			
	UPS ON			
	Mains Sensing			
	Regulated/Unregulated Mode Selection			
	Over temperature			

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General	Dimensions (LxWxH) in mm	275x340x325(mm)	275x465x475(mm)	350 x 575 x 565(mm)
	Ingress Protection Rating	IP 20	IP 20	IP 20
	Gross Weight	34Kg	53Kg	80Kg (approx.)
	Operating Temperature	0-45°C	0-45°C	0-45°C
	Max Altitude	2000m	2000m	2000m
	Noise Emission Level	≤ 60db	≤ 60db	≤ 60db
	Relative Humidity	0- 90% RH Compatible	0- 95% RH Compatible	0- 95% RH Compatible
	Warranty	3 Years	5 Years	5 Years

Technical Specifications are subject to change without any prior notice

Inverter & Lithium Battery Combo		
RATING	**INVERTER MODEL**	**LITHIUM BATTERY OPTION**
3KVA/24V	SunVolt 3624M+	25.6V/150Ah-280Ah
5KVA/48V	SunVolt 5048M+	51.2V/100Ah-150Ah-280Ah
7.5KVA/96V	SunVolt 7596M+	N/A
10KVA/120V	SunVolt 10120M+	N/A
15KVA/240V	SunVolt 15240M+	256V/100Ah-280Ah



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GRID INTERACTIVE INVERTER (GI)

Grid Interactive (GI) inverters is designed to efficiently convert DC power generated by solar modules into AC power through integration with local grid available. These GI inverters are highly effecient with reliable performance and comptible with new advanced solar module like 600wp and above



Application

Residential, Industrial and Commercial application

Wide Operating Voltage Range

20A

Max. DC Input Current

Low start-up Voltage from 80V

Smart remote Monitoring Included with LivMonitor 360

10* YEAR PRODUCT WARRANTY

*T&C Apply

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TECHNICAL SPECIFICATIONS

LG NOMENCLATURE		LGSUN3K1MG3GI	LGSUN5K1MGIG3	LS106GI-G3
Input (DC)	Recommended Max. PV Input Power	4100Wp	7500Wp	9000Wp
	Max. Input Voltage	550V	600V	600V
	Number of MPPT/String per MPPT	1/1	2/1	2/1
	Start-up Input Voltage	70V	60V	90V
	Rated Input Voltage	360V		330V
	MPPT Operating Voltage Range	50-550V	50-570V	50-570V
	Full Power MPPT Voltage Range	275-500V	250-520V	250-520V
	Max. Input MPPT Current	15Ax1	12.5Ax2	15A x 15A
	Max. DC Input Short-circuit Current per MPPT	20Ax1	15Ax2	22.5A
Output (AC)	Rated Power	3000W	5000W	6000W
	Max. AC Power	3000VA	5000VA	6000VA
	Max. Output Current	14.5A	24.1A	29A
	Nominal Grid Voltage	L/N/PE, 220VAC 230VAC 240VAC		
	Grid Voltage Range	180-276VAC		
	Nominal Frequency	50/60 Hz		
	Grid Frequency Range	45-55Hz/54-66Hz		
	THDi	⟨3%		
	Power Factor	1 Default (+/- 0.8 Adjustable)		
Efficiency	MPPT Effieciency	⟩99.9%		
	Self-consumption at Night	⟨1W		
	Max. Efficiency	97.7%	98.0%	98.4%
Protection	MPPT Effieciency	Yes		
	Self-consumption at Night	Anti-Islanding protection, DC reverse polarity protection, Over temp protection, Leakage current protection, Over voltage protection Over current protection, Earth fault protection		
	SPD	MOV: Type III Standard		
Commun-lcation	Standard Communication Mode	RS485, WiFi/GPRS (optional)		
General Data	Topology	Transformerless		
	Ambient Temperature Range	-30°C to 60°C		
	Permissible Relative Humidity Range	0-100%		
	Noise	⟨25dB		
	DC Switch	Optional		
	Cooling	Natural Convection		
	Max. Operating Altitude	2000m	4000m	4000m
	Dimension	321x260.5x131.5mm	345x341x167mm	349x344x164mm
	Support bracket	Wall-mounted		
	Weight	≤7Kg	10Kg	10Kg
	Display	LCD+LED	LCD	LCD
	Degree of Protection	IP65		
	Warranty	10 Years		
Approval & Certificates	BIS Certified as per IS/IEC Standards			

NOTE: Specifications included in this datasheet are subject to change without notice.

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TECHNICAL SPECIFICATIONS

PARAMETERS		LS305GI- G3	LS308GI - G3	LS310GI - G3	LS315GI-G3	LS320GI-G3
Input (DC)	Max. Recommended Max. PV Input Power	7500W	12000W	15000W	22500W	30000W
	Start-up Input Voltage	160V				
	Number of MPPTs	2				
	MPPT Voltage Range	140-1000V				
	Input Range with Full Power Operation with 2 MPPTs Parallel	240-850V	380-850V	420-850V		480-850V
	Max. Input Current	13A-13A			26A-26A	
	Input Short-circuit Current for each MPPT	18A-18A			36A-36A	
Output (AC)	Nominal Output Power	5000W	8000W	10000W	15000W	20000W
	Max. Output Power	5000VA	8800VA	11000VA	16500VA	22000VA
	Max. Output Current	8A	12.8A	15.9A	23.9A	31.9A
	Nominal Grid Frequency	50/60 Hz				
	THD/THDi	〈3%				
Efficiency, Safety And Protection	Max. Efficiency	98.4%	98.5%	98.5%	98.6%	
	Euro Efficiency	97.5%	98.0%	98.0%	98.2%	
	MPPT Adaptation Efficiency	〉99.9%				
	Sef-consumption at Night	〈1W				
	Communication	RS485, WiFi/GPRS (optional)				
	DC Switch	YES				
	DC Reverse Polarity Protection	YES				
	Input / Output SPD	PV: type II standard, AC: type II standard				
	Other Protections	Anti-islanding protection, Leakage current protection, Ground fault monitoring, PV-array string fault monitoring				
General Data	Ambient Temperature	-30°C to +60°C				
	Cooling	Natural			Fan	
	Display	LCD & Bluetooth + APP				
	Dimension	513X425X169 mm				
	Weight	17Kg	18Kg	18Kg	20Kg	22Kg
	Noise	〈 40 db				
	Ingress Protection	IP 65				
	Warranty	10 Years				
Approval & Certificates	BIS Certified as per IS/IEC Standards					

NOTE: Specifications included in this datasheet are subject to change without notice.



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TECHNICAL SPECIFICATIONS

RATING		25KW	30KW	50KW	60KW	80KW	100KW
Input (DC)	Max. Input Voltage	1100V					
	Rated Input Voltage	620V				625V	
	Start-up Voltage	200V					
	MPPT Operating Voltage Range	180V-1000V					
	Number of MPP Trackers	3	3	4	6	6	10
	Number of DC Inputs	2 for each MPPT					
	Max. Input MPPT Current	3X40A		4X40A	6X32A	6X40A	10X40A
	Max. Input Short Circuit Current	3X50A		4X50A	6X50A	6X60A	10X50A
Output (AC)	Rated output power	25000W	30000W	50000W	60000W	80000W	100000W
	Max. Apparent power	28000VA	34000VA	55000VA	60000VA	88000VA	100kVA@45°C/ 90kVA@50°C
	Max. Output Current	42.2A	51.5A	83.3A	100A	133.3A	152A@380V/ 145A@400V/ 139.2A@415V
	Rated Output Voltage	3/N/PE, 230/400Vac				3/N/PE, 380V / 400V / 415V	
	Output Voltage Range	3/N/PE, 380V / 400V					
	Rated Output Frequency	50/60Hz					
	Output Frequency Range	45Hz-55Hz/55Hz-65Hz					
	Active Power Adjustable Range	0-100%					
	THDi	⟨3%				⟨1%(@100%P)	
	Power Factor	1 (adjustable +/_0.8)					
Efficiency	Max. Efficiency	98.6%		98.8%	98.7%		98.6%
	MPPT Efficiency	⟩99.9%					
Protection	Dc Reverse Polarity Protection	Yes					
	Anti-islanding Protection	Yes					
	Leakage Current Protection	Yes					
	Ground Fault Monitoring	Yes					
	Pv-array String Fault Monitoring	Yes					
	Dc Switch	Yes					
	SPD	Yes					
General Data	Ambient Temperature Range	-30°C to +60°C					
	Self-consumption at Night	⟨3W			⟨2W		-
	Topology	Transformerless					
	Degree of Protection	IP 65			IP 66		
	Allowable Relative Humidity Range	0-100%					
	Max. Operating Altitude	4000m					
	Cooling	Smart Air Cooling					
	Dimension (W×H×D) mm	585X480X220			687X561X275		970X695X325
	Weight	36Kg		37Kg	50Kg		75Kg
	Display	LCD & Bluetooth + APP					
	Communication	RS485/WiFi					
Approval & Certificates	BIS Certified as per IS/IEC Standards						

NOTE: Specifications included in this datasheet are subject to change without notice.

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SOLAR HYBRID INVERTERS

(HIGH FREQUENCY)

NOVARA SERIES

Novara series hybrid inverters are IP21 models which utilize solar power + grid + battery to provide seamless power supply for consumers. These hybrid inverters comes with inbuilt intelligence to extract maximum solar power to charge batteries, power to load and ensure to export any excess power to grid. these inverter can work with batteries or without batteries.

Battery Compatibility

Compatible with both Lead Acid and Lithium Battery

Parallel Operation

You can Connect upto 9 inverters in parallel

Surplus Solar Power Export

Get power backup & export excess solar power to grid

Built-in WiFi Connectivity

Connects to home WiFi & enables solar power generation tracking on mobile

5* YEAR PRODUCT WARRANTY



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TECHNICAL SPECIFICATIONS

MODEL		NOVARA-LG3648GIH	NOVARA-LS5648GIH
Phase		1-Phase in / 1-Phase out	
Maximum PV Input Power		5000W	6000W
Rated Output Power		3600W	5600W
Maximum Charging Power		5000W	6000W
Grid-Tie Operation	PV Input (DC)		
	Nominal DC Voltage/ Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC
	Start-up Voltage/ Initial Feeding Voltage	110 VDC	
	MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
	Number of MPP Trackers/ Maximum Input Current	1 / 18A	1 / 27A
Grid Output (AC)	Nominal Output Voltage	220/230/240 VAC	
	Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
	Nominal Output Current	15.6 A	24.3 A
	Power Factor	〉0.9	
Efficiency	Maximum Conversion Efficiency (DC/AC)	96%	
Off-Grid Operation	AC Input		
	AC Start-up Voltage/ Auto Restart Voltage	120 - 140 VAC / 180 VAC	
	Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
	Maximum AC Input Current	40 A	
Pv Input (DC)	Maximum DC Voltage	500 VDC	450 VDC
	MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
	Number of MPP Trackers/ Maximum Input Current	1/ 18A	1/ 27A
Battery Mode Output (AC)	Nominal Output Voltage	220/230/240 VAC	
	Output Waveform	Pure Sinewave	
	Efficiency (DC to AC)	93%	
Hybrid Operation	PV Input (DC)		
	Nominal DC Voltage/ Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC
	Start-up Voltage/ Initial Feeding Voltage	110 VDC / 120 VDC	110 VDC / 120 VDC
	MPP Voltage Range	120 VDC - 430 VDC	120 VDC - 430 VDC
	Number of MPP Trackers/ Maximum Input Current	1/ 18A	1/ 27A
Grid Output (AC)	Nominal Output Voltage	220/230/240 VAC	
	Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
	Nominal Output Current	15.6 A	24.3 A
Ac Input	AC Start-up Voltage/ Auto Restart Voltage	120 - 140 VAC / 180 VAC	
	Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
	Maximum AC Input Current	40 A	
Battery Mode Output (AC)	Nominal Output Voltage	220/230/240 VAC	
	Efficiency (DC to AC)	93%	
Battery & Charger	Nominal DC Voltage	48 VDC	48 VDC
	Maximum Solar Charging Current	100 A	120 A
	Maximum AC Charging Current	100 A	120 A
	Maximum Charging Current	100 A	120 A

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SOLAR HYBRID INVERTERS

(HIGH FREQUENCY)

SUNVOLT HF SERIES

Sunvolt HF series hybrid inverters are IP21 models which utilize solar power + grid + battery to provide seamless power supply for consumers. These hybrid inverters comes with inbuilt intelligence to extract maximum solar power to charge batteries, power to load and ensure to export any excess power to grid. these inverter can work with batteries or without batteries.

Battery Compatibility

Compatible with both Lead Acid and Lithium Battery

Lithium Batter BMS Function**

Intelligent BMS Function for Lithium Battery Protection

Surplus Solar Power Export

Get power backup & export excess solar power to grid

Higher Efficiency

Advanced Transformerless Design for Higher Efficiency

5* YEAR PRODUCT WARRANTY



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TECHNICAL SPECIFICATIONS

MODEL		SUNVOLT HF 3024	SUNVOLT HF 3624	SUNVOLT HF 5048	SUNVOLT HF 6048
Input	Phase	L+N+PE			
	Nominal Voltage	230 VAC			
	Voltage Range	90-280V (APL Mode) 170-280V (UPS Mode)			
	Frequency Range	50Hz/60Hz (Adaptive)			
Output	Battery Inverter	3000W	3600W	5000W	6000W
	PV Inverter	3000W	3600W	5000W	6500W
	Output Voltage(AC)	230VAC			
	Output Frequency	50/60Hz±0.1%			
	Waveform	Pure Sine Wave			
	Transfer Time(Optional)	10ms for computer, 20ms for home appliances			
	Peak Power	6000VA	7200VA	10000VA	12000VA
	Overload	Battery Mode：1min@102%~110% Load, 10s@110%~130% Load, 3s@130%~150% Load, 200ms@〉150% Load			
	Power Factor Range	〉0.99			
	Peak Efficiency (battery Mode)	〉98%			
Battery	Rated voltage	24Vdc		48Vdc	
	Constant Voltage Charging Voltage (Optional)	28.2Vdc		56.4Vdc	
	Floating charge voltage (Optional)	27Vdc		54Vdc	
Chargers	PV Charging Method	MPPT	MPPT	MPPT	MPPT
	PV Input Power	3000W	3600W	5000W	6500W
	MPPT Tracking Range	30~500Vdc	60~500Vdc	60~500Vdc	60~500Vdc
	Max PV Input Current	13A	15A	27A	27A
	Max PV Input Voltage	500Vdc	500Vdc	500Vdc	500Vdc
	Max PV Charging Current	100A	120A	120A	120A
	Max AC Charging Current	60A	100A	100A	100A
	Max Charging Current	100A	120A	120A	120A
Display	LCD Display	Operating mode/load/input/output, etc.			
Communication port	RS232	5PIN/Pitch2.0mm, baud rate 2400			
	Expansion & configuration port	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.			
	Parallel interface	No, Single Output		Yes	
General	Net Weight (Kg)	6.2 Kg		10.74 Kg	
	Dimensions (WM)	339X128X355.10 mm		325.77X136X483 mm	
Environment	Operating Temperature	-10~60°C			
	Humidity	20%–95% (Non-condensing)			
	Storage Temperature	-15°C to 60°C			
	Altitude	The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040			
	Protection Degree	IP21			
	Protection Class	Class 1			
	Noise	≤ 50 dB			
Approval & Certificates	BIS Certified as per IS/IEC Standards				

NOTE: Specifications included in this datasheet are subject to change without notice.

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SOLAR HYBRID INVERTERS

(HIGH FREQUENCY)

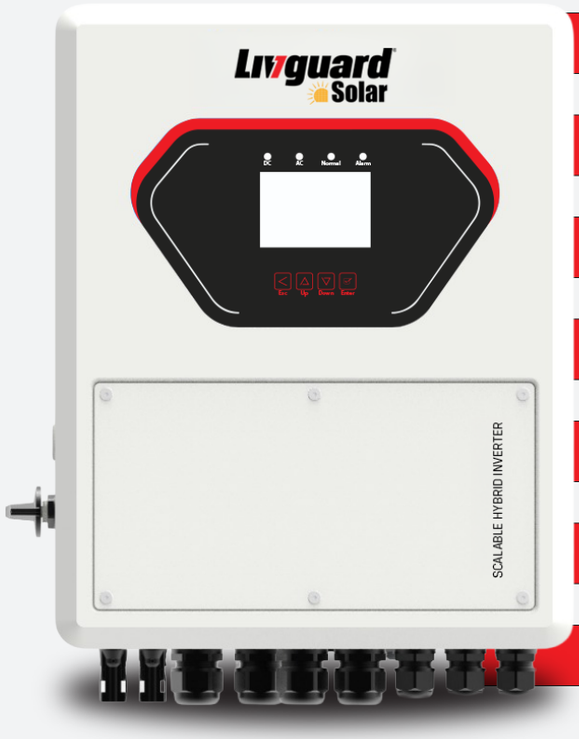
These IP65 Series inverters models utilize solar power + grid + battery to provide seamless power supply for consumers. These hybrid inverters comes with inbuilt intelligence to extract maximum solar power to charge batteries, power to load and ensure to export any excess power to grid. these inverter can work with batteries or without batteries.

5* YEAR PRODUCT WARRANTY



3KW & 5KW (SINGLE PHASE) | 5KW, 10KW, 12KW, 15KW & 20KW (THREE PHASE)

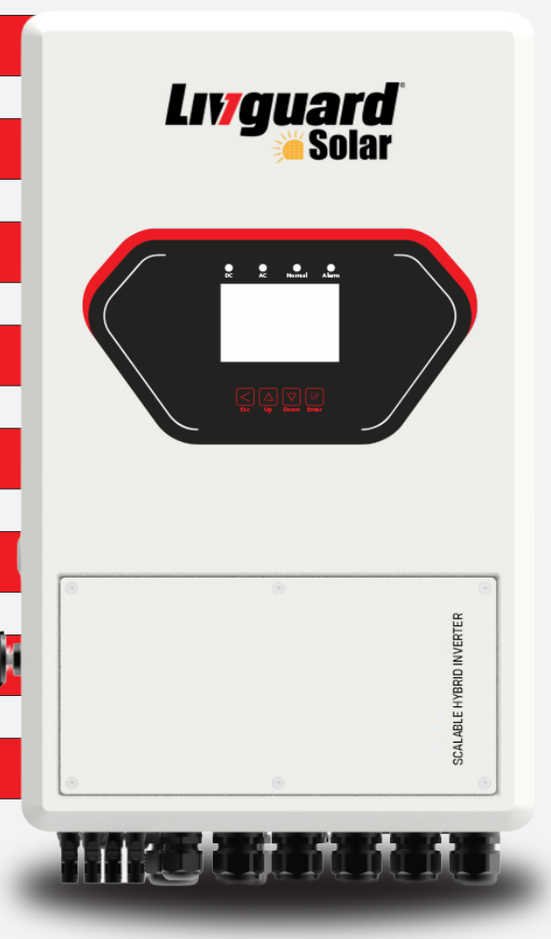
3K-5K-1PH



- Colorful touch enabled LCD for real-time monitoring and parameter configuration
- IP65-rated enclosure for enhanced protection
- Supports up to 16 units in parallel (on-grid & off-grid operation)
- Parallel battery compatibility for scalable energy storage
- Max. charge/discharge current: 140A
- Time-of-use functionality with up to 6 programmable charging/discharging periods
- Supports energy storage from diesel generator input

5K-20K-3PH

- 100% unbalanced output across all three phases, each phase supports up to 50% of rated power
- AC coupling capability for retrofitting existing solar systems
- Supports up to 10 units in parallel for both on-grid and off-grid operation
- Parallel battery compatibility for scalable energy storage
- Max. charging/discharging current:
  240A (In case of 5-10kW)
  350A (In case of 20kW)
- Time-of-use functionality with up to 6 programmable charging/discharging periods
- 48V low-voltage battery system with transformer isolation design
- Supports energy storage from diesel generator input



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TECHNICAL SPECIFICATIONS

FOR 3K-5K-1PH

MODEL		3K-!PH	5K-1PH
Battery Input Data	Battery Type	Lead-acid or Lithium-ion	
	Battery Voltage Range(V)	40-60	
	Max. Charging Current(A)	70	120
	Max. Discharging Current(A)	70	120
	Charging Strategy for Li-ion Battery	Self-adaption to BMS	
	Number of Battery Input	1	
PV String Input Data	Max. PV access power(W)	6000	10000
	Max. PV Input Power(W)	4800	8000
	Max. PV Input Voltage(V)	500	
	Start-up Voltage(V)	125	
	PV Input Voltage Range(V)	125-500	
	MPPT Voltage Range(V)	150-425	
	Full Load MPPT Voltage Range(V)	300-425	
	Rated PV Input Voltage(V)	370	
	Max. Operating PV Input Current(A)	18+18	18
	Max. Input Short-Circuit Current(A)	27+27	27
	No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1	1/1
AC Input/ Output Data	Rated AC Input/Output Active Power(W)	3000	5000
	Max. AC Input/Output Apparent Power(VA)	3300	5500
	Peak Power (off-grid)(W)	2 times of rated power, 10s	
	Rated AC Input/Output Current(A)	13.7/13.1	22.8/21.8
	Max. AC Input/Output Current(A)	15/14.4	25/24
	Max. Continuous AC Passthrough (grid to load)(A)	35	40
	Max. Output Fault Current(A)	30	50
	Max. Output Overcurrent Protection(A)	70	80
	Rated Input/Output Voltage/Range(V)	220V/230V 0.85Un-1.1Un	
	Grid Connection Form	L+N+PE	
	Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz	
	Power Factor Adjustment Range	0.8 leading-0.8 lagging	
	Total Current Harmonic Distortio n THDi	⟨3% (of nominal power)	
	DC Injection Current	⟨0.5%In	
Efficiency	Max. Efficiency	97.60%	
	Euro Efficiency	96.50%	
	MPPT Efficiency	⟩99%	
Equipment Protection	DC Polarity Reverse Connection	Yes	
	Protection	Yes	
	AC Output Overcurrent Protection	Yes	
	AC Output Short Circuit Protection	Yes	
	Thermal Protection	Yes	
	DC Terminal Insulation Impedance	Yes	
	Monitoring	Yes	
	DC Component Monitoring	Yes	
	Ground Fault Current Monitoring	Optional	
	Arc fault circuit interrupter (AFCI)	Yes	
	Power Network Monitoring	Yes	

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	Island Protection Monitoring	Yes
	Earth Fault Detection	Yes
	DC Input Switch	Yes
	Overvoltage Load Drop Protection	Yes
	Residual Current (RCD) Detection	Yes
	Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	Communication Interface	RS232, RS485, CAN
	Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (optional)
General Data	Operating Temperature Range	-40 to +60C°, 〉45C° Derating
	Permissible Ambient Humidity	0-100%
	Permissible Altitude	2000m
	Noise	〈30 dB
	Ingress Protection (IP) Rating	IP 65
	Inverter Topology	Non-Isolated
	Over Voltage Category	OVC II(DC), OVC III(AC)
	Cabinet size(W*H*D) [mm]	3 76×470×241.5 (Excluding connectors and brackets)
	Weight(kg)	17
	Warranty	Standard 5 years
	Type of Cooling	Natural Cooling
	Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549,NRS 097,RD 140, UNE 217002,0VE-Richtlinie R25,G99,VDE-AR-N 4105
	Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

*All specifications are subject to change without prior notice due to continuous product improvement.

Actual performance may vary depending on installation, operating conditions and usage.



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TECHNICAL SPECIFICATIONS

FOR 5K-20K-3PH

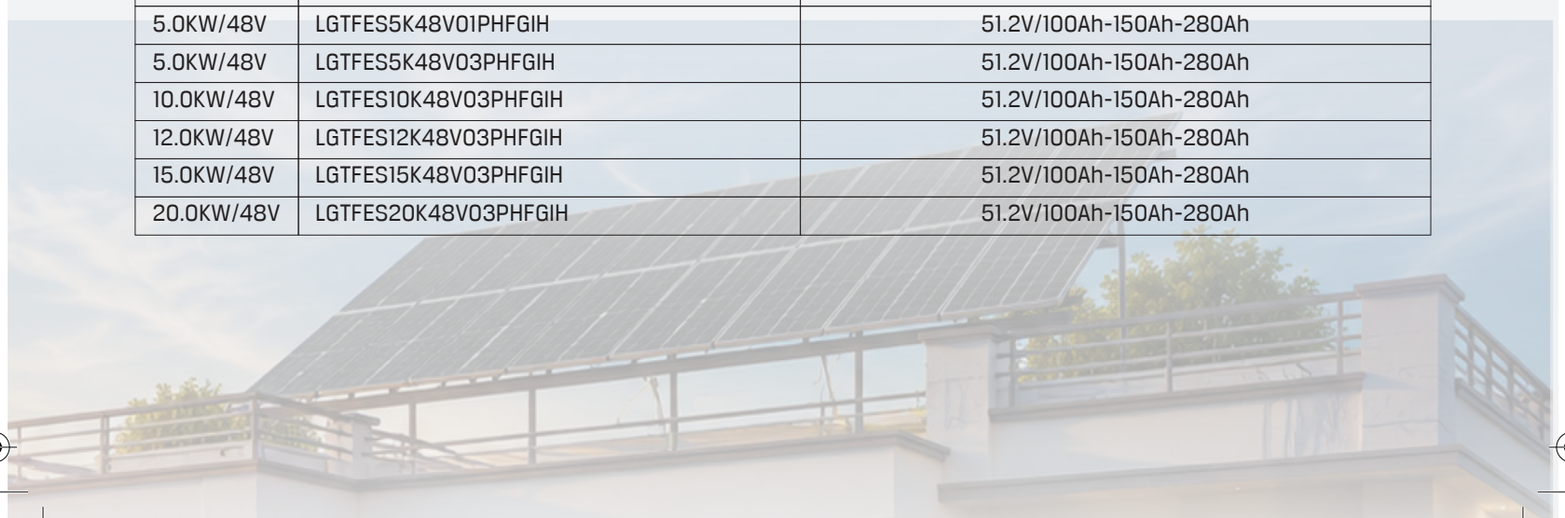
MODEL		5K	10K	12K	15K	20K
Battery Data	Battery Type	Lead-acid or Lithium-ion				
	Battery Voltage Range(V)	40-60				
	Max. Charging Current(A)	120	210	240	280	350
	Max. Discharging Current(A)	120	210	240	280	350
	Charging Strategy for Li-ion Battery	Self-adaption to BMS				
	Number of Battery Input	1				
PV String Input Data	Max. PV access power(W)	10000	20000	24000	30000	40000
	Max. PV Input Power(W)	7500	15000	18000	24000	30000
	Max. PV Input Voltage(V)	800				
	Start-up Voltage(V)	160				
	PV Input Voltage Range(V)	160-800				
	MPPT Voltage Range(V)	200-650			160-650	
	Full Load MPPT Voltage Range(V)	250-650	350-650		330-650	440-650
	Rated PV Input Voltage(V)	550				
	Max. Operating PV Input Current(A)	13+13	26+13		36+36	36+36
	Max. Input Short-Circuit Current(A)	17+17	34+17		54+54	54+54
	No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1	2/2+1		2/2+2	2/2+2
AC Input/ Output Data	Rated Ac Input/Output Power (W)	5000	10000	12000	15000	20000
	Max. AC Input/Output Apparent Power(VA)	5500	11000	13200	16500	22000
	Peak Power (off-grid)(W)	2 times of rated power, 10s				
	Rated AC Input/Output Current(A)	7.6/7.3	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29
	Max. AC Input/Output Current(A)	8.4/8	16.7/16	20/19.1	25/24	33.4/31.9
	Max continuous AC Passthrough grid to load (A)	45				70
	Max. Output Fault Current(A)	16.8	33.4	40	50	66.8
	Max Output Overcurrent protection (A)	70				
	Rated Input/Output Voltage/Range(V)	220V/380V, 230/400V 0.85Un-1.1Un				
	Grid Connection Form	3L+N+PE				
	Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz				
	Power Factor Adjustment Range	0.8 leading-0.8 lagging				
	Total Current Harmonic Distortion THDi	⟨3% (of nominal power)				
	DC Injection Current	⟨0.5%In				
Efficiency	Max. Efficiency	97.60%				
	Euro Efficiency	97.00%				
	MPPT Efficiency	⟩99%				
Equipment Protection	DC Polarity Reverse Connection Protection	Yes				
	AC Output Overcurrent Protection	Yes				
	AC Output Overvoltage Protection	Yes				
	AC Output Short Circuit Protection	Yes				
	Thermal Protection	Yes				
	DC Terminal Insulation Impedance Monitoring	Yes				
	DC Component Monitoring	Yes				
	Ground Fault Current Monitoring	Yes				
	Arc fault circuit interrupter (AFCI)	Optional				
	Power Network Monitoring	Yes				
	Island Protection Monitoring	Yes				

	Earth Fault Detection	Yes	
	DC Input Switch	Yes	
	Overvoltage Load Drop Protection	Yes	
	Residual Current (RCD) Detection	Yes	
	Surge Protection Level	TYPE II(DC), TYPE II(AC)	
Interface	Display	LCD+LED	
	Communication Interface	RS232, RS485, CAN	
	Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (optional)	
General Data	Operating Temperature Range	-40 to +60C°, 〉45C° Derating	
	Permissible Ambient Humidity	0-100%	
	Permissible Altitude	3000m	
	Noise	〈55 dB	〈60 dB
	Ingress Protection (IP) Rating	IP 65	
	Inverter Topology	Non-Isolated	
	Over Voltage Category	OVC II(DC), OVC III(AC)	
	Cabinet size (W*H*D) [mm] (Excluding connectors and brackets)	386W×660H×250D	456W×750H×268.5D
	Weight (kg)	38	51.9
	Warranty	Standard 5 years	
	Type of Cooling	Intelligent Air Cooling	
	Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549,NRS 097,RD 140, UNE 217002,0VE-Richtlinie R25,G99,VDE-AR-N 4105	
	Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

*All specifications are subject to change without prior notice due to continuous product improvement.
Actual performance may vary depending on installation, operating conditions and usage.

HF HYBRID INVERTER & LITHIUM BATTERY COMBO

RATING	INVERTER MODEL	LITHIUM BATTERY OPTION
3.6KW/48V	NOVARALG3648GIH	51.2V/100Ah-150Ah-280Ah
5.6KW/48V	NOVARALG5648GIH	51.2V/100Ah-150Ah-280Ah
3.0KW/24V	SUNVOLT HF 3024	25.6V/150Ah-280Ah
3.6KW/24V	SUNVOLT HF 3624	25.6V/150Ah-280Ah
5.0KW/48V	SUNVOLT HF 5048	51.2V/100Ah-150Ah-280Ah
6.0KW/48V	SUNVOLT HF 6048	51.2V/100Ah-150Ah-280Ah
3.0KW/48V	LGTFES3K48V01PHFGIH	51.2V/100Ah-150Ah-280Ah
5.0KW/48V	LGTFES5K48V01PHFGIH	51.2V/100Ah-150Ah-280Ah
5.0KW/48V	LGTFES5K48V03PHFGIH	51.2V/100Ah-150Ah-280Ah
10.0KW/48V	LGTFES10K48V03PHFGIH	51.2V/100Ah-150Ah-280Ah
12.0KW/48V	LGTFES12K48V03PHFGIH	51.2V/100Ah-150Ah-280Ah
15.0KW/48V	LGTFES15K48V03PHFGIH	51.2V/100Ah-150Ah-280Ah
20.0KW/48V	LGTFES20K48V03PHFGIH	51.2V/100Ah-150Ah-280Ah



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GRID INTERACTIVE HYBRID INVERTER (3 PHASE)

10KVA-100KVA (120V-360V)

Grid Interactive Hybrid Solar Inverter - Three Phase in-Three Phase out inverter gives maximum performance and reliability to run your heavy duty appliances. This inverter enables you to have the flexibility to be used as an On-Grid, Off-Grid or Hybrid Inverter as per your convenience

Redundant Power Supply (Grid & DG)

Twin Power supply to improve the power availability for the operation of PCU

No Break Changeover

No time delay during changeover from Solar to Battery or Grid and vice-versa.

Graphical Display with Real-Time Operational Graph

Realtime SLD logic for easy understanding for the system operations.

In-built safety for High Temp, Smoke and Reverse Polarity

PCU will shut down in case of fire/smoke and protects the connected loads and the system.

2* YEAR PRODUCT WARRANTY



TECHNICAL SPECIFICATIONS

INVERTER CAPACITY (KVA)		10	15	20	25	30	40	50	60	80	100
Grid	Input Wiring	3PH Five Wire (3 PH + N + E)									
	Input Neutral Requirement	Yes									
	Nominal Voltage	330V To 450V for 3PH									
	Grid Frequency Sync Range	50 Hz (± 6%)									
	Unity Power Factor For Grid Charging	Near to Unity									
	Operating Condition	Continuous									
	Input Fault Level	〉=10 KA									
	Self-consumption	Upto 4%									
	Charger Peak Efficiency	Upto 95%									
	DG Compatibility	Yes (Double Of Inverter Capacity)									
	Grid Compatibility	Yes Same As Inverter Capacity									
	Input Voltage Distortion Allowed	Less Than 3%									
	Grid Charger Capacity	50 % Of kVA Rating									
Solar	Charger Type	MPPT									
	Max PV Connection In KWp	10	15	20	25	30	40	50	60	80	100
	Max PV Voltage (VOC)	250V	250V/ 500V	500/680V					680V		680/900V
	MPPT Voltage Range	165-250V	165-250V/ 290-450V	290-450V: 240VDC | 420-620V: 360VDC					420-620V		420-620V-650/850V
	MPPT Modes Available	3 (Selectable)									
	No Of MPPT Channel	1							2	2	2
	Max I/P Amps Per Channel (Amps)	83	125 | 62	83|55	104|69	125|83	166|111	208|138	166	222	277|208
	Panel Reverse Protection	Yes									
	Solar Charger Efficiency	Upto 95%									
Battery	Nominal Battery Voltage (VDC)		120V/ 240V	240/360V					360V		360/900V
	Battery Buffer Setting	DC Voltage Selectable Through Key Pad									
	Grid Charging Current	Settable Through Key Pad									
	Temperature Compensated Charging	Yes									
	Battery Charging Voltage	Selectable From LCD Display									
	Type & No. Of Cells	Lead Acid / VRLA / Ni-cd/ (Lithium Ion)									
	BMS Compatible	Yes									
	Max Current Per Phase	11.5	17.3	23	29	33	44	55	67	89	111
	Output Voltage (Inverter Mode)	400V AC ± 2 %				415V AC ± 2 %					
	Output Frequency (Free Running)	50 Hz ± 1%									
	Output Waveform	Pure Sine Wave									
Output	Peak Inverter Efficiency (Full Load)	Upto 90%									
	Total Harmonic Distortion	Upto 3% At Linear Load									
	Overload Capacity	125% For 60sec, 150% For 5 Sec									
	Changeover Time (Full Load)	No Break Change Over Time									
	DC To AC Galvanic Isolation	In Built Isolation Transformer At Inverter Output									
	Anti Islanding Function	In Compliance With IEC 62116									
	Auto Bypass Feature	Yes									
	Unbalance Load Handling Capacity	Yes									
	Duty	Continuous									
Configuration	Modes Available	Grid Saving, Battery Backup, Export									
	Power Export to Grid	Enable / Disable Option Available									
	Power Import from Grid	Enable / Disable Option Available									

Environmental	Acoustic Noise Level From 1 M	≤65dB								
	Operating Temperature	0 To 40 Deg C(Dust Free Cooled And Dry Environment)								
	Storage Temperature	-10 °C To 55 °C								
	Relative Humidity	Upto 95 % (Non Condensing)								
	Altitude	〈1000 meter above sea level								
Physical	Enclosure Protection Grade	IP 20 Compatible To IEC 60529:2001-02- As Per MNRE Requirement								
	Enclosure Thickness	As Per Industrial Standard								
	Cooling	Forced Air								
	Colour	Upto 25kVA: RAL 7016					Above 30kVA: RAL 9016			
	Cable Entry	Bottom								
Parameters Displayed On LCD	Mains Group	1. Voltage, 2.Current, 3. Frequency, 4. KW, 5. kVA, 6. Import KWh, 7. Export KWh, 8. PF								
	Inverter Group	1. Voltage, 2. Current, 3. Frequency, 4. kVA								
	Output Group	1. Voltage, 2. Frequency								
	Output Group	1. Solar Voltage , 2. Solar Current, 3. Power(KW), 4. Solar Energy (KWh)								
	Battery Group	1. Voltage, 2.Current 3. SOC								
Protections	Electrical Protections	Circuit Breaker And Fuse								
Electronic Protections	Alarm Group	Alarms Are Available For Fault Condition.								
	Input Group	1.Input Under Voltage, 2.Input Over Voltage, 3. Charger Over Voltage, 4. Under / Over Frequency								
	Inverter Group	1. Output Under Voltage, 2.Output Over Voltage 3. Overload, 4. Output Short Circuit, 5. Inverter Over Temperature								
	Solar Group	1. Surge Protection , 2. Reverse PV Panel Protection								
	Battery Group	1. Battery Low 2. Battery Over Charge 3. Battery Charging Current Limit								
Connectivity	Communication	RS485								
	Protocol	Modbus RTU								
	LCD With Backlight & Tactile Key Pad Interface	Yes								
	Testing Standard	IEC -61683:1999, IEC- 60068-2-1, IEC-60068-2-2, IEC-60068-2-14, IEC-60068-2-30- As Per MNRE Requirement								
	Safety Factor	1 For Electronic Devices, 1 For Electrical								
	Earthing Connection (Ref. Is 3043)	Earth Terminal Block	25- 40 kVA : 3 X 25 mm GI/ Aluminium (Earth Bus Bar Running Along The Panel)				45-150 kVA : 6 X 50 mm GI/ Aluminium (Earth Bus Bar Running Along The Panel)			
	Illumination Lamp	N.A.					11W CFL			
	Gland Plate	N.A.					3MM MS C.R.C.A.			
	Utility Socket	N.A.					5A/ 230VAC			
Dimensions (In mm)	kVA Rating	10	20	25	30	40	50	60	80	100
	Width (W)	450	450	450	600	600	800	800	1100	1100
	Depth (D)	800	800	950	1000	1000	950	950	800	800
	Height (H)	800	800	800	1300	1300	1700	1700	1900	1900
	Weight (Kg) APPROX.	150	300	350	350	650	650	700	850	900
		Add On ACCESSORIES (Not Standard Part of Inverter)								

1) GSM Based Remote Monitoring 2) Modbus RS485 3) Radiation Sensor (Pyranometer)
4) Smoke Detector 5) IP 42 Enclosure And Above 6) Manual Bypass

SOLAR GIH INVERTER & LITHIUM BATTERY COMBO

SOLAR GIH	TECHNOLOGY	MODEL CODE	LITHIUM BATTERY OPTION
15KVA 240V 3Ph	3 Ph MPPT	LGTELS1520GIH3	256V/100Ah-280Ah
20KVA 240V 3Ph	3 Ph MPPT	LGTELS2020GIH3	256V/100Ah-280Ah
25KVA 240V 3Ph	3 Ph MPPT	LGTELS2520GIH3	256V/100Ah-280Ah
30KVA 240V 3Ph	3 Ph MPPT	LGTELS3020GIH3	256V/100Ah-280Ah
40KVA 240V 3Ph	3 Ph MPPT	LGTELS4020GIH3	256V/100Ah-280Ah
50KVA 240V 3Ph	3 Ph MPPT	LGTELS5020GIH3	256V/100Ah-280Ah
60KVA 240V 3Ph	3 Ph MPPT	LGTELS6020GIH3	256V/100Ah-280Ah



LIV SERV

CARE IS OUR CULTURE

Genuine Spare Parts	Company Certified Technicians	Pan India Network	Customer Connect	100+ Service Centres	1200+ Expert Service Technicians	24500+ Pin Codes Wide Spread Service Network

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Livguard™

POWERING THE HOMES OF TOMORROW

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Serviceable 17k+ Pincodes | 100+ Service Centers

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