

APNI BIJLI BANAO, EXPERT KO BULAO.

SOLAR KE SMART SOLUTIONS GHAR LE AAO!

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ABOUT LIVGUARD

Livguard Energy Technologies Pvt. Ltd. (LETPL) one of India's leading providers for power energy solutions is poised to transform the world with its cutting edge technology, in solar solutions, power back-up, automotive solutions, & e-rickshaw batteries. Livguard was founded in the year 2014 and is a part of the SAR Group which has been serving the nation for the past three decades. With our technologically advanced toolkit and trained technicians we have achieved the customer's trust and faith in our products and services. This has helped us reach the 4,000 crore company milestone in a short period of time.



MPPT POWER CONDITIONING UNIT





Livguard Solar Hybrid MPPT HKVA Inverters are high capacity, enhanced efficiency solar PCU that runs both on solar & utility (grid) power supply. It comes with Priority Mode (ECO/GRID/NONSOLAR) feature for maximizing savings and extended backup.

Advanced MPPT algorithm extracts maximum power from PV modules to both run your appliances and charge your batteries.

FEATURES

Enhanced Solar Power Utilization with Priority Mode No PV overload tripping via limiting feature to ensure generation does not fully stop Greater PV power allowed per KVA along with a wide MPPT voltage range Safety & Protection **Fast Battery Charging** • Smart thermal management • Charging from Grid + Solar In-built battery, inverter and panel protection • Multiple Battery Selection available, MCB protection at all Inputs and **Best in Class Overload Capability UPS/Unregulated Mode** • Wide range for poor grids where **Pure Sine Wave**

MPPT POWER CONDITIONING UNIT

Maximum PV Voltage Vmp

Model No.	LS OG3048M	LS OG5048M	LS OG7500M	LS OG10000M	LS OG15000M	
Product Specification Range of MPPT Solar PCU	3KVA/48V	5KVA/48V	7.5KVA/96V	10KVA/120V	15KVA/240V	
Mains Input Mode						
Mains AC Low Cut (UPS Mode)	180	± 5V		170 ± 5V		
Mains AC Low Cut Recovery (UPS Mode)	9-12V Hysterisis from > Low Cut Voltage					
Mains AC High Cut (UPS Mode)	260	± 5V		270 ± 5V		
Mains AC High Cut Recovery (UPS Mode)		9-12V Hys	terisis from < High	Cut Voltage		
Mains AC Low Cut (Wide Range Mode)	120	± 5V		170 ± 5V		
Mains AC Low Cut Recovery (Wide range Mode)		9-12V H	lysterisis > Low C	ut Voltage		
Mains AC High Cut (Wide Range Mode)	280			270 ± 5V		
Mains AC High Cut Recovery (Wide Range Mode)		9-12V H	lysterisis < High C	ut Voltage		
Input Frequency Range			50 ± 5% Hz			
Output voltage in Mains mode			Same as Mains In	put		
Output frequency in Mains mode	Same as Mains Input					
Battery			•			
outer y			TUBULAR			
Battery Type	VRLA					
Ballory Type			FLAT PLATE			
DC Input Voltage (Nominal)	48V	48V	96V	120V	240V	
Battery Quantity (12V 100Ah to 220Ah)	40 V	40 0	8	10	240 V	
Float Charging Voltage (Tubular/VRLA/Flat Plate)	4		.5/13.4 (per Batte		20	
Boost Charging Voltage(Tubular/VRLA/Flat Plate)			.8/13.7 (per Batte			
		14.5/15				
Boost Charging Voltage Range for Tubular and SMF Battery			Provided Above			
Bulk Absorption Battery Voltage			Same as Above	!		
Battery Deep Discharge Recovery			YES			
Charging Current By Grid	20.0 ± 1.0A	30.0 ± 1.0A	25.0 ± 1.0A	35.0 ± 1.0A	30.0 ± 1.0A	
Charging Current By PV			Provided Above			
Backup Mode						
Output Voltage	230 ± 2% V					
Output Frequency	50 ± 0.5 Hz					
Output Waveform	PURE SINE WAVE					
No Load Current (Switch OFF)		Sleep Mo	ode is not Provide	d Currently		
Discharging Current @ Full Load	10.5 A± 1 Amp.	17.5 A ± 1 Amp.	26 A± 1 Amp.	35 A± 1 Amp.	52 A± 1 Amp.	
Low Battery Warning		11.1	IV (per Battery) ±	± 0.2V		
Low Battery Cut		10.8	BV (per Battery)	± 0.2V		
Change Over Time From Mains To Inverter (Unregulated Mode)	≤ 46	msec		≤ 25 msec		
Change Over Time From Inverter To Mains (Unregulated Mode)	≤ 46 msec ≤ 25 msec					
Change Over Time From Mains To Inverter (UPS Mode)	≤ 20 msec ≤ 25 msec					
Change Over Time From Without Inverter To Mains (UPS Mode)	≤ 20	msec		≤ 25 msec		
Cooling	FORCED COOLING BY FAN					
Protections						
Overload in Backup Mode			YES			
Short Circuit in Backup Mode			YES			
Short Circuit in Mains Mode			Mains MCB Trip)		
Backfeed	YES					
Over Temperature	YES					
Reverse Battery	YES YES					
Phase to Phase Protection in Mains Mode						
olar Charge Controller						
Solar Charge Controller Type	MPPT					
Max Panel Wattage That Can Be Connected	3300W	5500W	8250W	11000W	16500W	
Max No. of (@325 Wp) Panels Connected (S:Series, P: Parallel)	S: 3, P: 3	S: 4, P: 4	S: 7, P: 4	S: 7, P: 5	S:12,P:4	
Min No. of (@325 Wp) Panels Connected (S:Series, P. Parallel)	S: 3, P: 1	S: 3, P: 1	S: 5, P: 1	S: 5, P: 2	S:10,P:1	
No. of Input Channel	1	1	1	1	1	
Max. input Current per Channel (Maximum Isc)	(30 ± 1)A	(50 ± 1)A	(50 ± 1)A	(57 ± 1)A	(57 ± 1)A	
Maximum PV Voltage Voc	, ,		` ,			
	-	± 5)V	,	± 5)V	(700 ±5)V	
Minimum PV Voltage Vmp)V + 5\\/		5V	350V	
Waximum BV Voltago Vmn	/ 160	+ b 11/	/ 266			

(160 ± 5)V

(266 ± 5)V

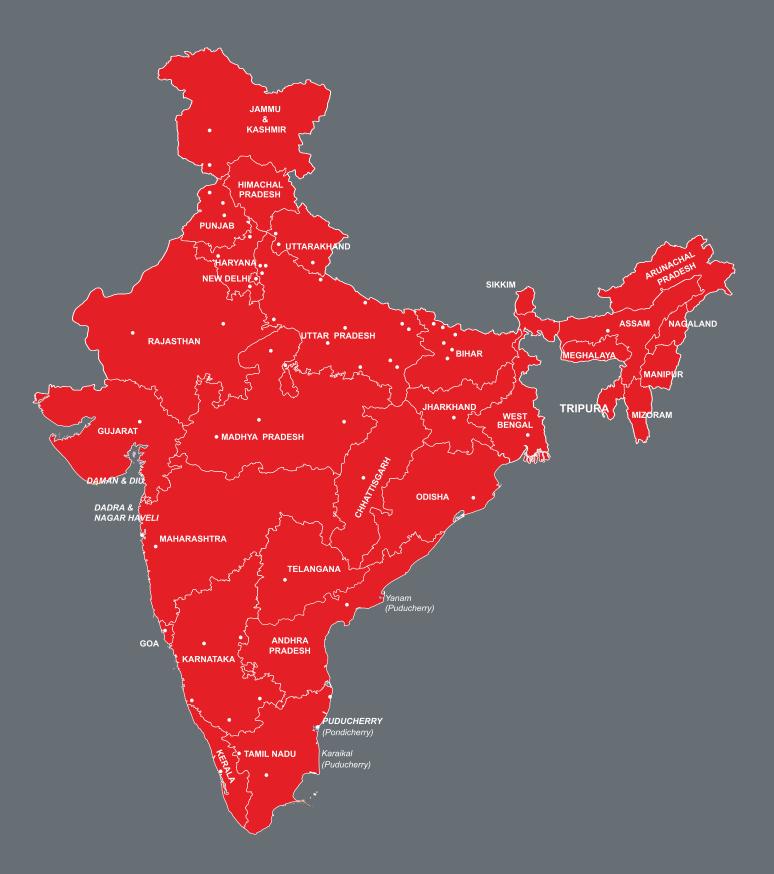
(560 ± 5)V

Solar Charge Controller							
Maximum Battery Current	60A	100A	75A	80A	60A		
MPPT Charger Efficiency (Peak)	Ę	94%		95%			
Reverse PV Protection			YES				
Reverse Current Flow to PV		NO					
Switching Element(MPPT Charger)		IGBT					
DOD (Depth of Discharge)		As per battery voltage setting (1.8V/cell)					
Display and Alarms							
		1. Battery Voltage & Current					
		2. PV Voltage & Current					
LCD Display Parameters		3. PV Power, Total Generation & Today's Genration					
		4. Mains Voltage & Frequency					
		5. Load Voltage, Current & Frequency (Inverter Mode Only)					
		6. Load Power					
		7. Battrey Charging/Discharging Status					
		8. Time & Date					
		9. User Settings & Factory Settings					
		i) Overload					
		ii) Short Circuit					
		iii) Battery & PV Reversew Polarity					
LCD Fault/Drataction Status Display		iv) Battery Over/Under Voltage					
LCD Fault/Protection Status Display		v) Battery Current Limit					
		vi) Mains Over/Under Voltage					
		vii) System Over Temprature					
		viii) Grid/Load/PV Surge Protection(MOV)					
Buzzer		YES					
Safety							
HV Test Input to Earth		YES					
HV Test Output to Earth		YES					
IR Test Input to Earth		YES					
IR Test Output to Earth		YES					
Environment							
Operating Temperature			0°C to 50°C				
Storage Temperature		10°C to 70°C					
Operating Relative Humidity		5-95% (Non-condensed)					
Dimensions							
Dimensions in mm (LXWXH)	325X295X415	448.5X275X611	650X400X753.5	650X400X753.5	650X450X7		

Dimensions in mm (LXWXH)		325X295X415	448.5X275X611	650X400X753.5	650X400X753.5	650X450X753.5
Box Dimensions in mm (LXWXH)	Dimensions in mm (LXWXH)		680X345X510	835X495X800	835X495X800	835X565X800
Weight in Kg	Net Weight	31.0Kg	52.95Kg	97.5Kg	104.35Kg	138.40Kg
	Gross Weight	33.5Kg	55.55Kg	109.85Kg	116.70Kg	153.45Kg
NOTE: Specifications are subject to change withou	t prior notice					



NOW SERVING COUNTLESS STATES ACROSS THE COUNTRY







On-Site* Service Facility

- ♦ Solar Panel, UPS, PCU, SCC & SMU: Customer End
- **♦** Battery: CSC location



Service centre locations Pan India













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