

OFF-GRID SOLAR INVERTER (MPPT) – WALL MOUNTABLE

MPPT Solar Inverters are a next generation solar inverters with high efficiency MPPT technology ensure 20%to 30% more solar power harvesting from the same capacity solar panels as compare to other technology. Its state-of-the art design and intelligent control optimizes the yield of all PV installations in residential, offices, rural and other remote installations with very poor or no grid availability.

It consists of MPPT based solar charge controller and bi-directional inverter with transformer on the AC side. Transformer based design makes our inverter more rugged and reliable in worst grid input conditions. It provides uninterrupted Pure Sine Wave power at the load output using Solar, Battery and grid input in customizable order of priority.

Latest DSP based control ensures excellent performance and protection from any kind of malfunction.

The high conversion efficiency helps in longer battery backup Ease of operation and Plug 'N' Play type of design make it the ideal product for all kinds of users.

Salient Features

- Intelligent Charging algorithm to increase Battery Life.
- MPPT based State-of-the-art Latest technology for optimum performance.
- Smart solar charging current sharing when mains is available.
- DSP based automatic battery level management.
- Compatible with Inverter load as well as UPS load.
- By pass switch for manual operation.
- Protection Inverter Batt. Low, Batt. High, Overload, Short circuit, Over temp, PV reverse, MCB Trip / FuseTrip.
- Smart Solar Management (User Configurable).

Advance Battery Management for longer battery life and prevent battery from over charging

1.1 KVA | 1.6 KVA | 2.1 KVA | 2.5 KVA

LENTO INDUSTRIES PVT. LTD.

A27, Sector-58, Gautam Budh Nagar, Noida-201301 UP, INDIA. Tel : +91-8527476197 | Email : info@lentoindia.com | www.lentoindia.com

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Technical Specification

Parameter	Unit	1.1 KVA
Model name		1100/12/24
System rating (Name Plate)	VA	1100
Input current at no load at Nominal Battery	Adc	2.4
Full Load Input Current ±2A	Amp	70
Standard wattage of bulb load in count ±10	Wp	880
Operating DC voltage	V	
Input voltage max Voc	Vdc	
Maximum Solar array power	Wp	1000
Max PV modules	Nos	3(330W)
Modules in series	Nos	NO
Parallel strings	Nos	3
Switching element in SCC		MOSFET
Topology		Interlived Buck converter 2Stage
Input Current from panel max	Adc	<=30
Type of control		Micro
Type of solar charger		MPPT
Max current rating of SCC	Adc	80.0
Efficiency of MPPT tracking	%	>=95
Mppt Tracking Range	Vdc	28-50
Switching element in Inverter		MOSFET
Type of Control		PWM
Nominal Output voltage in inverter mode	Vac	220V ± 7V
Output supply phases		single
Nominal Output Frequency of Inverter	Hz	± 1 (Default is 50Hz) selectable 50/60Hz (Optional)
Frequency (Min - Max during Grid by pass)	Hz	47-53/57-63
Frequency (Min - Max during Grid by pass)	Hz	40-70/50-70
Output voltage regulation	%	180-220
Output THD (v) at linear load	%	<5%
Creast Factor		3:01
Overload	Sec	OK (6 Retry)
Cooling Fan ON at temp	°C	60 (or >50% of Rated Load or >8A Charging or Solar I>20A)
Cooling Fan Off at temp	°C	55 (or <40% of Rated Load or <5A Charging or Solar I<10)
Peak efficiency of inverter	%	81
Battery low voltage alarm per battery	Vdc	10.8 /10.5± 0.2
Battery low voltage cut per battery	Vdc	10.5 /10.2± 0.2 (With 4 Retry)
Batter low cut recovery per battery through	Vdc	12.7 ± 0.2 (or Mains or reset swich on front panel)
Battery High cut with Alarm per battery	Vdc	15.5±0.2
Battery High cut Recovery per battery	Vdc	14.5±0.2
Grid low cut voltage (IT load/Normal load)	Vac	180/100 ± 10
Grid low cut voltage recovery (IT load/Normal	Vac	190/110 ± 10
Grid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10
Grid high cut voltage recovery (IT load/Normal	Vac	255/270 ± 10
Grid charging Enable/Disable		yes
Selection of UPS Load/Normal Load		yes
Indication LEDs	°C	Tact switch Status
Operating Temperature range	°C	0-50
Storage Temperature range	%	0 +65
Max RH		95
Front panel details (MCB, Display, Selection		Display with tact switch
Rear panel details (MCB, Terminals etc)		O/P socket,fuse/Circuit breaker,mains & batt. Cable and fan
Fuse in Solar Path		Yes
Grid By pass Manually		Through switch
Input Protection		Resettable Circuit breaker

Technical Specifications can be changed without prior notice.



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