

Solar Inverter with **Inbuilt Lithium** BATTERY (MPPT)

**SOLAR
INVERTER**
Li-ion Series
Lithium
BATTERY INVERTER



SALIENT FEATURES

- ECO Friendly
- Dynamic control algorithm based BMS ensure safety of Lithium Battery
- Elegant & Compact Design
- Light weight so wall mountable
- Long Life of Battery 10 years*
- Fast Charging
- Maintenance Free
- Inbuilt LiFePO4 Battery inside
- Resettable CKT Breaker
- Grid Charging Enable/Disable

Solar Inverter with Inbuilt Lithium Battery (MPPT) Specification

S.No.	Parameter	Unit	Rating		
	Model Name		1100/12V	2100/24V	2500/25.6V
1	System Rating	VA	1100	2100	2500
2	Full Load Input Current $\pm 2A$	Amp	70	65	65
3	Operating DC Voltage	V	12.8	25.6	25.6
4	Input Voltage max Voc (PV)	Vdc	25	45	45
5	Maximum Solar Array Power (PV)	Wp	1000	2000	2500
6	Battery	V	12.8V 66AH / 12.8V 100AH LifePo4	25.6V 100AH LifePo4	25.6V 100AH LifePo4
7	Capacity		1.28kWH	2.56kWH	2.56kWH
8	Backup Time @400W Load	Hr	3 Hr 15 Min ± 10 Min	6 Hr 30 Min ± 15 Min	8 Hr 30 Min ± 15 Min
9	Backup Time @ 100% Load	Hr		1 Hr 40 min ± 10 Min	
10	Battery Life	Yr		10 year	
11	Type of Solar Charger			PWM	
12	Efficiency of SCC	%		>90	
13	Nominal Output voltage in inverter mode	Vac		220V $\pm 7V$	
14	Output Supply Phases			Single	
15	Nominal Output Frequency of Inverter	Hz		50 ± 1	
16	Output Voltage Regulation 11.5-14.0V	%		180-220	
17	Creast Factor			3:01	
18	Overload Capacity 125%	Sec		13 (6 Retry)	
19	Overload Capacity 150%	Sec		7 (6 Retry)	
20	Battery Low Voltage alarm per Battery	Vdc		11.5V ± 0.2	
21	Battery Low Voltage cut per Battery	Vdc		11.0V ± 0.2	
22	Batter Low cut recovery per Battery through Solar	Vdc		12.8 ± 0.2 (or Mains or Reset Switch on Front Panel)	
23	Max Battery Charging Voltage by grid per Battery	Vdc		14.0/28.0 ± 0.2	
24	Max Battery Charging Current by grid in Hi/Lo option	Adc		16A $\pm 2A$ / 12 $\pm 2A$	
25	Max Battery Charging Voltage by Solar per Battery	Vdc		14.0/28.0 ± 0.2	
26	Max Battery Charging Reconnect Voltage by Solar and Grid per Battery with LiPo4 Battery			13.6 ± 0.2	
27	Battery High Cut with Alarm per Battery	Vdc		15.5 ± 0.2	
28	Battery High Cut Recovery per Battery	Vdc		14.5 ± 0.2	
29	Max Battery charging Current by Solar	Adc		30 $\pm 2A$	
30	Max Charging Current to Battery by Solar+Grid	Adc		30 $\pm 2A$	
31	Grid Low Cut Voltage (IT load/Normal load)	Vac		180/100 ± 10	
32	Grid Low Cut Voltage recovery (IT load/Normal load)	Vac		190/110 ± 10	
33	Grid High Cut Voltage (IT load/Normal load)	Vac		265/280 ± 10	
34	Grid High Cut Voltage Recovery (IT load/Normal load)	Vac		255/270 ± 10	
35	Grid charging Enable/Disable	Vac		Yes	
36	Selection of UPS Load/Normal Load			Yes	
37	Selection of Operating Mode		HC-Charging current = 20/30 $\pm 1A$ Solar + Mains till battery boost voltage with maximum Solar Sharing. System will not be disconnect Grid in any case		
			EC-Charging current= 20/30 $\pm 1A$ Solar + Mains till boost voltage, System will cut off the mains when battery voltage reaches boost voltage level and output load is transferred to Solar + Battery and Grid reconnected $\leq 12.0V$ per Battery.		
			SC-Charging current= 20/30 $\pm 1A$ Solar + Mains till boost voltage, System will cut off the mains when battery voltage reaches boost voltage level and output load is transferred to Solar + Battery and Grid reconnected $\leq 12.0V$ per Battery.		
38	Output Voltage at No load at rated Battery Voltage	Vac		220 ± 2	
39	Input current at no load at Nominal Battery Voltage	Adc		2.4 ± 0.2	
40	Noise @ 1 meter	dB		<50	
41	Protections		Overload, Battery Deep Discharge, Battery Overcharge, Short circuit(1retry), Battery Hi, PV Reverse, Over Temp, Fuse Trip, Battery reverse		
42	LCD Display Parameters		PV Current, Battery Voltage, Mains Voltage, UPS ON/OFF, UPS Mode, Solar Available, Load percentage (0 to 150%), Over Load, Short ckt, Fault, Battery Low, Over Temp, PV Reverse, Fuse Trip,		
43	Indication LEDs		Tact Switch Status		
44	Operating Temperature Range	$^{\circ}C$		0-50	
45	Storage Temperature Range	$^{\circ}C$		0 +65	
46	Max RH	%		95	
47	Front Panel details (MCB, Display, Selection Switch etc)		Display with Tact Switch		
48	Changeover time from Inverter to Mains in UPS mode	ms		<10	
49	Changeover time from Inverter to Mains in Normal mode	ms		<10	
50	Changeover time from Mains to Inverter in UPS mode	ms		<10	
51	Changeover time from Mains to Inverter in Normal Mode	ms		<40	
52	Input Protection		Resettable Circuit breaker		
53	Installation Type		Wall Mount		



BATTERY LIFE
FAST CHARGING



COMPACT SIZE &
LESS WEIGHT



MAINTENANCE
FREE



FAST
CHARGING



HIGHER
BACK UP



LONGER
LIFE

LENTO INDUSTRIES PVT. LTD.

Registered office : 05, Ground Floor, Plot No. 556,
School Block, Shakarpur Delhi-110092

Manufacturing Unit

A - 27, Sector-58, Noida, Gautam Buddha Nagar, Uttar Pradesh - 201301

Tel : +91-8527476197, Toll Free : 1800 313 0746 , Email : info@lentoindia.com



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