ENTO
House of Green Energy

Solar Inverter with Inbuilt Lithium BATTERY (PWM)

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

LENTO
House of Green Energy

Lithium
BATTERY INVERTER

Solar Inverter with Inbuilt Lithium Battery (PWM) Specification

S.No.	Parameter	Unit	Rating
	Model Name		**1100/12V**
1	System Rating	VA	1100
2	Full Load Input Current ±2A	Amp	70
3	Operating DC Voltage	V	12.8
4	Input Voltage max Voc (PV)	Vdc	25
5	Maximum Solar Array Power (PV)	Wp	1000
6	Battery	V	12.8V 66AH / 12.8V 100AH LifePo4
7	Capacity		1.28kWH
8	Backup Time @400W Load	Hr	3 Hr 15 Min ±10 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 ± 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 Swich 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 ±2A /12±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 ± 2A
30	Max Charging Current to Battery by Solar+Grid	Adc	30 ± 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)		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±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±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 <=12.0V per Battery. SC-Charging current= 20/30±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 <=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	°C	0-50
45	Storage Temperature Range	°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

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