

SINE WAVE INVERTER

Li-ion Series

Lithium⁺

BATTERY INVERTER



SALIENT FEATURES

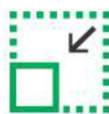
- ECO Friendly
- Dynamic control algorithm based BMS ensure safety of Lithium Battery
- Elegant & Compact Design
- Light weight so wall mountable
- Long Life of Battery 10 years*
- Fast Charging
- Maintenance Free
- Inbuilt LiFePO4 Battery inside
- Resettable CKT Breaker
- Grid Charging Enable/Disable

Sine Wave Inverter with Inbuilt Lithium Battery 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	Battery	V	12.8V 66AH / 12.8V 100AH LifePo4	25.6V 100AH LifePo4	25.6V 100AH LifePo4
5	Capacity		1.28kWH	2.56kWH	2.56kWH
6	Backup Time @400W Load	Hr	3 Hr 15 Min ± 10 Min	6 Hr 30 Min ± 15 Min	6 Hr 30 Min ± 15 Min
7	Backup Time @ 100% Load	Hr		1 Hr 40 min ± 10 Min	
8	Battery Life	Yr		10 year	
9	Nominal Output voltage in inverter mode	Vac		220V $\pm 7V$	
10	Output Supply Phases			Single	
11	Nominal Output Frequency of Inverter	Hz		50 ± 1	
12	Output Voltage Regulation 11.5-14.0V	%		180-220	
13	Creast Factor			3:01	
14	Overload Capacity 125%	Sec		13 (6 Retry)	
15	Overload Capacity 150%	Sec		7 (6 Retry)	
16	Battery Low Voltage alarm per Battery	Vdc		11.5V ± 0.2	
17	Battery Low Voltage cut per Battery	Vdc		11.0V ± 0.2	
18	Max Battery Charging Voltage by grid per Battery	Vdc		14.0/28.0 ± 0.2	
19	Max Battery Charging Current by grid in Hi/Lo option	Adc		16A $\pm 2A$ /12 $\pm 2A$	
20	Battery High Cut with Alarm per Battery	Vdc		15.5 ± 0.2	
21	Battery High Cut Recovery per Battery	Vdc		14.5 ± 0.2	
22	Grid Low Cut Voltage (IT load/Normal load)	Vac		180/100 ± 10	
23	Grid Low Cut Voltage recovery (IT load/Normal load)	Vac		190/110 ± 10	
24	Grid High Cut Voltage (IT load/Normal load)	Vac		265/280 ± 10	
25	Grid High Cut Voltage Recovery (IT load/Normal load)			255/270 ± 10	
26	Grid charging Enable/Disable	Vac		Yes	
27	Selection of UPS Load/Normal Load			Yes	
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.					
28	Selection of Operating Mode				
29	Output Voltage at No load at rated Battery Voltage	Vac		220 ± 2	
30	Input current at no load at Nominal Battery Voltage	Adc		2.4 ± 0.2	
31	Noise @ 1 meter	dB		<50	
32	Protections		Overload, Battery Deep Discharge, Battery Overcharge, Short circuit(1retry), Battery Hi, PV Reverse, Over Temp, Fuse Trip, Battery reverse		
33	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,		
34			Tact Switch Status		
35	Indication LEDs		0-50		
36	Operating Temperature Range	$^{\circ}C$	0 +65		
37	Storage Temperature Range	$^{\circ}C$	95		
38	Max RH	%	Display with Tact Switch		
39	Front Panel details (MCB, Display, Selection Switch etc)		<10		
40	Changeover time from Inverter to Mains in UPS mode	ms	<10		
41	Changeover time from Inverter to Mains in Normal mode	ms	<10		
42	Changeover time from Mains to Inverter in UPS mode	ms	<10		
43	Changeover time from Mains to Inverter in Normal Mode	ms	<40		
44	Input Protection		Resettable Circuit breaker		
45	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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