

**TECHNOLOGICAL SMART SOLAR INVERTER**

**ADVANCED DSP SINEWAVE**

**INBUILT LITHIUM POWER BACKUP**

**BATTERY LIFE 12-15 YEARS**



## KEY FEATURES

- Wall-mounted design helps save floor space
- Sleek and modern appearance suitable for homes and offices
- Integrated lithium-ion battery for efficient energy storage
- Longer lifecycle compared to lead-acid batteries
- Low self-discharge rate for enhanced reliability
- Supports hybrid operation (solar + grid power)
- Built-in LCD display for status monitoring
- Up to 3 times faster charging than a normal Inverter
- Zero emissions during operation and maintenance free
- Longer life of battery up to 6000 cycles
- Plug-and-play installation with minimal setup

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## TECHNICAL SPECIFICATIONS

S. No.	Parameter	Unit	Rating		
1	Model name (Name Plate)		L-iON1500	L-Ion2500	L-iON3500
2	System rating	VA	1000	2000	3000
3	Battery Type (Inbuilt)		Lithium Ferro Phosphate		
		AH	50/80/100	50/80/100	50/80/100
4	Full Load Input Current $\pm 2A$	Amp	63	63	63
5	Operating DC voltage	V	12.8	25.6	25.6
6	Input voltage max Voc	Vdc	25	45	45
7	Maximum Solar array power	Wp	660	1340	2000
8	Switching element in SCC		MOSFET		
9	Type of control		Micro		
10	Type of solar charger		PWM		
11	Max current rating of SCC	Adc	40.0		50.0
12	Efficiency of MPP tracking	%	NA		
13	Efficiency of SCC	%	>90		
14	Switching element in Inverter		MOSFET		
15	Type of Control		PWM		
16	Nominal Output voltage in inverter mode	Vac	220V $\pm$ 7V		
17	Output supply phases		single		
18	Nominal Output Frequency of Inverter	Hz	50 $\pm$ 1		
19	Frequency (Min - Max during Grid by pass) UPS mode	Hz	47-53		
20	Frequency (Min - Max during Grid by pass) Inverter mode	Hz	40-60		
21	Output voltage regulation	%	180-220		
22	Output THD (v) at linear load	%	<5%		
23	Creast Factor		03:01		
24	Overload capacity 125%	Sec	6 (6 Retry)		
25	Overload capacity 150%	Sec	2 (6 Retry)		
26	Cooling Fan ON at temp	$^{\circ}C$	60 (or 45% of rated Load or Solar I>15A)		
27	Cooling Fan Off at temp	$^{\circ}C$	55 (or 40% of rated Load or Solar I<15A)		
28	Peak efficiency of inverter	%	< 82		
29	Battery low voltage alarm per battery	Vdc	11.0 $\pm$ 0.2		

30	Battery low voltage cut per battery	Vdc	10.8 ± 0.2 (With 4 Retry)		
31	Batter low cut recovery per battery through Solar	Vdc	12.7 ± 0.2 (or Mains or reset swich on front panel)		
32	Max Battery charging voltage by grid	Vdc	14.4 ± 0.2	28.8± 0.4	28.8± 0.4
33	Max Battery charging current by grid	Adc	15A±2A		
34	Max Battery charging voltage by Solar per battery	Vdc	14.3 ± 0.2		
35	Battery High cut with Alarm per battery	Vdc	15.0±0.2		
36	Battery High cut Recovery per battery	Vdc	14.6±0.2		
37	Max Battery charging current by Solar	Adc	15±2A		
38	Max Charging current to battery by Solar+Grid	Adc	15±2A		
39	Grid low cut voltage (IT load/Normal load)	Vac	180/100 ± 10		
40	Grid low cut voltage recovery (IT load/Normal load)	Vac	190/110 ± 10		
41	Grid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10		
42	Grid high cut voltage recovery (IT load/Normal load)	Vac	255/270 ± 10		
43	Grid charging Enable/Disable		yes		
44	Selection of UPS Load/Normal Load		yes		
45	Selection of Operating Mode		HC-Charging current = 15A ±1A Solar + Mains till battery boost voltage with maximum Solar Sharing. System will not be disconnect Grid in any case		
			EC-Charging current= 15A ±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 ≤11.8V/11.2V per Battery		
46	Input current at no load at Nominal Battery voltage	Adc	< 2		
47	Noise @ 1 meter	dB	<50		
48	Protections		Overload, Battery Deep discharge, Battery Overcharge, Short circuit(1retry),Battery Hi, PV Reverse, Over Temp, Fuse/MCB Trip, Battery Reverse		
	LCD Display parameters		PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smiley) if solar available, (non smiley symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customized LCD )		
49	Indication LEDs		Tact switch Status		
50	Operating Temperature range	°C	0-50		

51	Storage Temperature range	°C	0 +65		
	Max RH	%	95		
52	Front panel details (Display, Selection switch etc)		Display with switches		
53	Enclosure protection		IP20		
54	Changeover time in UPS mode	ms	<10		
55	Changeover time in Normal mode (Inv mode)	ms	<40		
56	Mains connection		3 core copper cable size 0.75sqmm, 1 .5mtr length w/o TOP		
57	Output		3pin Universal socket 13A		
58	MCB in battery path		Yes		
59	Fuse in Solar Path		Rated Fuse/MCB		
60	Input Protection		Resettable Circuit breaker	Rated MCB	
61	Backup @ 400Watt Load	Hrs	1.6/2.5/3.2	3.2/5.12/6.4	
62	Weight without Packing	Kg	21/23/25	34/36/38	36/38/40
63	Dimension (LXWXH) without Packing	MM	405x385x145	440x385x170	500x445x180



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