

## WALL MOUNTED INBUILT LITHIUM BATTERY SOLAR INVERTER



## **KEY FEATURES**

- Range includes all types of Solar Inverters having compatible battery pack
- Sleek in design which will save space
- No maintenance and higher no of years warranty and life of battery
- Battery chargeable by Grid and Solar
- Charging up to 3 times faster than a normal Inverter
- No Acid Fumes, Maintenance free
- Lower power consumption than normal Inverter
- Longer life of battery up to 2000 cycles





## **TECHNICAL SPECIFICATIONS**

S. No.	Parameter	Unit	Rating						
1	Model name (Name Plate)		L- iON500	L- iON1500	L- iON2500	L- iON3500	L- iON5500		
2	System rating	VA	300	1000	2000	3000	5000		
3	Battery Type (Inbuilt)	AH	18 / 30	60	100 (LFP) 42 / 54	42	100		
4	Full Load Input Current ±2A	Amp	20	63	63	52	80		
5	Operating DC voltage	V	12.8	12.8	25.6	51.2	48		
6	Input voltage max Voc	Vdc	25	25	45	90	90		
7	Maximum Solar array power	Wp	100	660	1340	2680	4000		
8	Switching element in SCC	wp	100	MOSFET 2080 4000					
9	Type of control	-			Micro				
10	Type of solar charger			PWM					
11	Max current rating of SCC	Adc	10						
12	Efficiency of MPP tracking	%	NA				50.0		
12	Efficiency of SCC	%	>90						
13		70	250	X90 X90 MOSFET					
14	Switching element in Inverter Type of Control			PWM					
15		Vac		220V ± 7V					
10	Nominal Output voltage in inverter mode	Vac							
17	Output supply phases Nominal Output Frequency of Inverter	Hz		50 ± 1					
	Frequency (Min - Max during Grid by pass) UPS mode	-		50 ± 1 47-53					
19		-							
20	Frequency (Min - Max during Grid by pass) Inverter n	Hz	40-50						
21 22	Output voltage regulation	%	180-220						
	Output THD (v) at linear load	70		<5%					
23	Creast Factor	C	03:01 6 (6 Retry)						
24	Overload capacity 125%	Sec	2 (6 Retry)						
25	Overload capacity 150%	Sec	2 (6 Retry) 60 (or 45% of rated Load or Solar I>15A)						
26	Cooling Fan ON at temp	°C	55 (or 40% of rated Load or Solar I>15A)						
27	Cooling Fan Off at temp	°C	55 (or 40% of rated Load or Solar I<15A) < 82						
28	Peak efficiency of inverter	%	< 82 11.0 ± 0.2						
29	Battery low voltage alarm per battery	Vdc							
30	Battery low voltage cut per battery	Vdc	10.8 ± 0.2 (With 4 Retry) 12.7 ± 0.2 (or Mains or reset swich on front panel)						
31	Batter low cut recovery per battery through Solar	Vdc				541.0.0			
32 33	Max Battery charging voltage by grid	Vdc	6A±1A	0.2	28.8± 0.4 15A±2A	57.6± 0.8 14A±2A	20A±2A		
34	Max Battery charging current by grid	Adc	AIIA		13A12A 14.3 ± 0.2	14AIZA	ZUAIZA		
	Max Battery charging voltage by Solar per battery	Vdc							
35	Battery High cut with Alarm per battery	Vdc		15.0±0.2 14.6±0.2					
36	Battery High cut Recovery per battery	Vdc	<i>c</i>			14.04	20.24		
37	Max Battery charging current by Solar	Adc	6A±1A		15±2A	14±2A	20±2A		
38	Max Charging current to battery by Solar+Grid	Adc	12A±1A	12A±1A 15±2A 14±2A 20±2A					
39	Grid low cut voltage (IT load/Normal load)	Vac	180/100 ± 10 190/110 ± 10						
40	Grid low cut voltage recovery (IT load/Normal load)	Vac		190/110 ± 10 255/280 ± 10					
41	Grid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10 255/270 ± 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(1KVA/2KVA) & 11.5V For 3KVA						
46	Input current at no load at Nomical Patters waitage	Ade	<1			2			
46	Input current at no load at Nominal Battery voltage	Adc	<1			50			
47	Noise @ 1 meter	dB	<50						



	Protections		Overload, Battery Deep discharge,Battery Overcharge,Short circuit(1retry),Battery Hi,PV Reverse,Over Temp,Fuse/MCB Trip,battery reverse.					
48	LCD Display parameters		LED	UPS ON/OFF, UPS if solar availa absence of sol 150%), over load	tery voltage, Mains voltage, Mode, Symbol of sun (Smily) able, (non smily symbol in lar), Load percentage (0 to , short ckt, fault, battery low, verse, Fuse trip, (Customised LCD)	ON/OFF, UPS Mode, Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp. PV reverse Fuse trin (15/21CD.)		
49	Indication LEDs		Yes	Yes Tact switch Status NA			NA	
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)		LED with switches Display with tact switch			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			Tern	Terminal Block 30Amp	
57	Output			3pin Universal socket 13A		Terminal Block 30Amp		
58	MCB in battery path		SWITCH	Yes			Yes	
59	Fuse in Solar Path			Rated Fuse		Rated MCB		
60	Input Protection		FUSE	Resettable Circuit breaker		Rated MCB		
61	Backup @ 400Watt Load	Hrs	1 / 1.45hrs*	2.00 -2.15hrs	3.3-3.45 / 4hrs	5.30-6hrs	10-11hrs	
62	Weight without Packing	Kg	8.5	20	32	53	54	
63	Dimension (LXWXH) without Packing	mm	330X130X310	405X385X140	445X385X170	410X285X800	495x430x575 *Battery weight and dimention extra (Battery will be separate)	







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