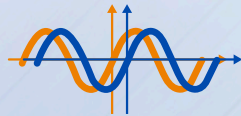




**TECHNOLOGICAL
SMART SOLAR INVERTER**



**ADVANCE DSP
SINEWAVE**



**INBUILT LITHIUM
POWER BACKUP**



**BATTERY LIFE
12-15 YEARS**

KEY FEATURES

- True MPPT maximizes solar utilization by extracting 30% more energy from panels
- Inbuilt lithium battery saving space and simplifying installation
- Wall mountable design, ideal for homes and offices
- Built-in screen for real-time data
- Longer lifecycle compared to lead-acid batteries
- Low self-discharge rate for enhanced reliability
- Supports hybrid operation (solar + grid power)
- 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

TECHNICAL SPECIFICATION

Parameters	Units	Rating		
Model		L-iON1500MT	L-iON2500MT	L-iON3500MT
System Rating		1KVA	2KVA	3KVA
Operating DC Voltage	VDC	12.8	25.6	25.6
SPV Open Circuit Voltage Range (Min-Max)	VDC	25-55	60-110	60-110
Max SPV Power	KW	1	2	3
Compatible SPV Panels	36/60/72/144 Cells			
Switching Element	MOSFET			
Controller	DSP			
Efficiency	>95%			
Battery Charging Stages	5 (Softstart, Boost, Absorption, Float, Euqalize)			
Battery Type (Inbuilt)		Lithium Ferro Phosphate		
	AH	50/80/100	50/80/100	50/80/100
Full Load Input Current $\pm 2A$	Amp	63	63	63
Output @ No Load	Volts	230 +/-2%		
Output Frequency	Hz	50 +/-2%		
Overload	Amps	3.5	7	10.5
	WattS	800W	1600W	2400W
Output Low Retry	-	1 Time		
Output Short Circuit	-	1 Time		
Display	Alphanumeric	16X2 LCD		
Parameter	Output (Inverter)	Voltage, Current, Power and Frequency		
	Input (Grid)	Voltage and Frequency		
	Solar	Voltage,Current,Power and Energy (Optional)		
	Battery	Voltage,Current		
	Status/Faults	Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/Charging Stages		

Switching Element	-	MOSFET		
Output Voltage	Volts	230 +/-2%		
Phase	-	1Phase-3Wire P,N,E		
Output Waveform	-	Digitally Filtered Pure Sine Wave		
Frequency	Hz	50 +/-2%		
Changeover (Mains to Inverter)	ms	<10ms		
Voltage Range(Inverter Mode)	Volts	100-280 +/-2%		
Voltage Range(UPS Mode)	Volts	175-255 +/-2%		
Output Power Factor	PF	0.8		
Overload Retry	-	3 Times		
Switches	-	System ON/OFF, Mode Selection: Hybrid / PCU / Smart, INV / UPS Selection		
Indication (LED)	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults		
Alarm (Audible)	-	Battery Low, Overload, Charger On, Inverter On, Solar Charger ON		
Protections	-	Overload, Short Circuit Protection, Over Voltage, SPV Surge and Transient Protection (MOV Varistors), Reverse Polarity of Battery, Over temperature Protection, Under Voltage and Over Voltage Protection		
Cooling	-	Forced Air Cooling (Temp Controlled)		
Communication	-	Remote Monitoring System (Over GPRS/BLE and Wifi) Or RS232 (Optional)		
Operating Temperature	C	0-50		
Operating Humidity	%	95		
Protection Class	-	IP20		
Changeover time in UPS mode	ms	<10		
Changeover time in Normal mode (Inv mode)	ms	<40		
Mains connection		3 core copper cable size 0.75sqmm, 1 .5mtr length w/o TOP		
Output		3pin Universal socket 13A		
MCB in battery path		Yes		
Input Protection		Resettable Circuit breaker	Rated MCB	
Backup @ 400Watt Load	Hrs	1.6/2.5/3.2	3.2/5.12/6.4	
Dimensions (LxWxH)	mm	405x385x150	440x385x170	500x445x180
Weight	Kg	21/23/25	34/36/38	36/38/40

