



# ASTRA LT<sup>+</sup>

**WALL MOUNTED SOLAR LITHIUM INVERTER**  
WITH INBUILT LITHIUM IRON PHOSPHATE BATTERY



## **FEATURES:**

- Wall Mountable
- Pollution Free & Safe
- 10-15 Years Battery Life
- Smart Home UPS
- Solar Chargeable
- 3x Faster Charging

## INPUT

Power rating		1100 VA
DC Voltage	V	12.8
Battery Capacity	Ah	100 @C1
Voltage Range	Vac	170-270
Frequency	Hz	45-65
Full Load DC Output Current	A	65
THD	%	>10% at 220VAC (input)
Input Power Factor	Lag	>0.9
Charger Topology		CONSTANT CURRENT/VOLTAGE

## OUTPUT

Power Capacity	W	850
Voltage	Vac	220 +/-7
Frequency	Hz	50
Power Factor	Lag	0.85
Voltage Harmonic	%	<5(LINEAR LOAD)
Waveform		Pure Sine Wave
Transient Response	%	<8(10%-90% (Linear Load)
Low Battery Voltage		Smart Shutdown
Peak efficiency of inverter	%	82
Crest Factor		3:01
Changeover time from inverter to mains in UPS mode		ms <10
Changeover time from inverter to mains in normal mode		ms <10
Changeover time from mains to inverter in UPS mode		ms <10
Changeover time from mains to inverter in Normal mode		ms <40
Overload capacity (IT Load selection )125% sec		6(6 Auto Retry)
Overload capacity (IT Load selection )150% sec		2(6 Auto Retry)
Overload capacity (Normal Load Selection)125%		sec 6(6 Auto Retry)
Overload capacity( Normal Load Selection)150%		sec 2(6 Auto Retry)
Cooling Fan ON at temp	°C	60° or >45% of load
Cooling Fan Off at temp	°C	55° or <40% of load



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## SOLAR

Maximum PV Power Recommended	(150W/160W)*4
Solar Current Maximum	40A

## BATTERY AND RUNTIME

Battery Type	Lithium Iron
Battery Chemistry	Lithium Iron phosphate
Charging Time	5-6hrs
Backup Time at 400W	>3hrs
Backup Time at 100W	>2hrs

## OTHER FEATURES

IP Protection Class		120
Operating Temperature	°C	0-50°
Storage Temperature		0-65°
Audible Noise	dB	<50
Max RH	%	L95
Dimension	L*W*H	440mm*367mm*153.5mm
Weight	Kgs	22

## DISPLAY

LED Indication	UPS ON
Alarm Function	Battery Low Voltage, Mains Abnormal, UPS Fault, Output Overload
Alarm Function	Battery Voltage, Mains Voltage, UPS ON/OFF, UPS Mode, Load Percentage (0-150%), Overload, Short Circuit, Fault, Battery Low, Over Temperature, Fuse Trip (Customised LCD)

Parameters	Normal Lead Acid Battery	Astra Li+ Battery Pack inbuilt Inverter
Battery and Inverter Module	Individual Battery Individual Inverter	Compact Inverter with inbuilt Battery
Maintenance	3 Months Once	No Maintenance
Charing Time	10-12hrs	5hrs
Weight	60Kgs	22Kgs
Backup Time 100Watts	8hrs	12hrs
Battery Life	5 Yrs	15 Yrs
DOD	75%	100%
Installation	No recommended to Install in Living Room	Wall Mountable in Living Room
Life cycle	800cycles	3000cycles
Temperature	Less Efficient	More Efficient
BMS	No	Yes
Over Voltage Protection	No	Yes
Over Charge Protection	No	Yes
Short Circuit Protection	No	Yes
Temperature Protection	No	Yes
Capacity Rating	C20 or C10	C1
Max Charging Current	0.1C	1C



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