TECHNICAL SPEC. OF SOLAR INVERTER, MODEL SIN – 0.6 / 0.8 / 1.5 / 2 KVA
(Microcontroller base – PWM)

	DESCRIPTION		SPECIFICATIONS
1.	Battery Voltage	:	12/24/48 VDC Nominal 10.35/20.7/41.4 VDC Minimum 16/33/66 VDC Maximum
2.	Solar Voltage	:	17/34/68 VDC Nominal 13/26/52 VDC Minimum 23/46/92 VDC Maximum
3.	Solar Charging Current	:	3A – 25A (Factory Settable)
4.	Maximum Inverter continuous O/P Power	:	600 / 800 / 1500 / 2000 VA
5.	Inverter mode nominal AC Volt Regulation	:	220/230V single phase (Factory Selectable) 220/230V ± 5%
6.	Inverter mode nominal Frequency Regulation	:	50Hz. 50Hz. ± 0.1%
7.	Wave Shape	:	Sinusoidal
8.	Design	:	Micro controller, Mosfet topology
9.	Soft Start	:	Yes
10.	Inverter Surge O/P rating	:	120% for 16 milisec. 150% for 1 milisec.
11.	Peak Efficiency	:	>91% at nominal battery voltage at 25°C
12.	THD	:	<3%
13.	Overload	:	Auto reset 5 operations. Beyond system shutdown. Restart with Reset switch.
14.	LED Display	:	Inverter ON Grid ON Battery low Solar Charging ON Mains Charging ON Over load
15.	Fault Protection	:	Inverter overload (time dependent) O/P short circuit Battery over voltage Battery under voltage
16.	Audible alarm	:	At the starting, over load, battery low
17.	Operating Temperature	:	0°C to 50°C
18.	Humidity	:	5% to 95% non-condensing
19.	Enclosure	:	Front Cover FRP, Body Sheet Metal with Epoxy Powder Coating. Floor Mounting.
20.	Max. utilization of solar power	:	When battery is fully charged by solar excess power being wasted normally. In this system the inverter disconnects mains power automatically and goes into battery mode and support the load together with excess solar power and partly discharging the battery if needed. This feature ensures full utilization of solar power when battery is fully charged.
21.	Dimension	:	D x W x H (15” 11” 7.5”)