

Technical Specifications

MODEL	1KVA	2KVA	3KVA	5KVA	10KVA
OUTPUT PARAMETERS					
Capacity	1KVA/800W	2KVA / 1600W	3KVA / 2400W	5KVA/4000W	10KVA/8000W
Power factor	0.8				
Nominal Voltage	220 – 240 V AC				
Wave Shape	Pure Sine wave				
Voltage THD	<3%				
Surge rating	150% for 10 ms, 120% for 20 sec, 110% for 1 minute.				
UPS efficiency	> 91%				
Frequency Regulation –	50 ± 0.5Hz				
Transfer time Mains to Battery / Solar	0 millisecond				
BATTERY PARAMETERS					
Nominal Battery voltage	24 / 48	24 / 48	48 / 96	48 / 96	120
Solar PV Voltage					
Nominal	34 / 68	34 / 68	68 / 136	68 / 136	170
Minimum	26 / 52	26 / 52	52 / 104	52 / 104	130
Maximum	46 / 92	46 / 92	92 / 184	92 / 184	230
Solar PWM Charging Current	20 – 100A (Factory Settable)				
Solar MPPT Charging Current	20 – 100A (Factory Settable)				
Battery charging by mains	Solar is unavailable and battery voltage reached 40% depth of discharge, mains will support the load and charge the battery up to its 80% capacity leaving scope for solar charging.				
INPUT PARAMETERS					
Configuration	1 Phase				
Nominal Voltage	220V AC				
Voltage range	135 – 270V AC				
Nominal Frequency	50 / 60 Hz				
Frequency range	40 – 60Hz				
ENVIRONMENTAL PARAMETERS					
Operating temperature	0 – 55°C				
Storage temperature	- 20 to 55 °C				
Noise Level	< 45 db				
Max. utilization of solar power	<p>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.</p> <p>This feature ensures full utilization of solar power when battery is fully charged.</p>				