

# TECHNICAL SPECIFICATION

Parameter	RATING										
System Rating	1 KVA	2 KVA	3 KVA	3 KVA	5KVA	5KVA	5KVA	7.5KVA	7.5KVA	10KVA	10KVA
Operating DC Voltage	48V	72V	96V	120V	120V	168V	180V	168V	180V	168V	180V
<b>PFC BASED MAINS CHARGER</b>											
Switching Element	IGBT										
Micro-Controller	DSP										
Type of Charger	PFC Based Charger										
Efficiency	90%										
<b>PARAMETER</b>											
Battery Low Alarm	10.7V +/- 2%										
Battery Low Cut / High Cut	10.5V / 15.5V +/- 2%										
Battery Charging Voltage_SMF	13.75V +/- 2%										
Battery Charging Voltage_TUB	14.2V +/- 2%										
Battery Charging Current_HC / NC	5A / 2.5A +/- 2%										
Grid Low Cut / High Cut	165V / 280V +/- 2%										
Batt charging Selection	NC/HC										
Battery Selection	Tubular / SMF										
<b>BATTERY</b>											
Temperature Compensation	3mV / Cell ,18mV / Battery (Optional)										
<b>LCD</b>											
Display	20x4 Alphanumeric LCD Graphical Color Display 3.2" (Optional)										
<b>LCD Display Parameters</b>											
Output	Voltage, Current, Frequency										
Load	Load in %, Actual Running Load in Watt										
Battery	Battery Level & Battery Voltage, Charging Current by Grid, Charging Stages(Soft Start, Bulk, Absorption, Float & Equalize)										
Status and Faults	Overheat, Mains High / Low, Inverter On/Off, Output Low, Battery Low / High										
<b>UPS</b>											
Control Topology	PWM										
Nominal Output Voltage	220V +/- 2%										
Ouput Supply Phase	1 Phase, 3 Wire (P,N,E)										
Output Waveform	Digitally Filtered Pure Sine Wave										
Frequency	50 Hz										
Voltage Regulation	1%										
Output Distortion at Full Load	<3%										
Overload	100% - 120% : 60 Seconds with 3 Times Auto Reset, 120%-150% : 5 Second,<150%:1 Second										
Peak Efficiency	> 85%										
Noise from I Meter	60 dB										
Cooling	Temperature Controlled Fan										
Protections	Overload, Short Circuit,Over Voltage, Reverse Polarity of Battery, Over Temperature, Under Voltage and Over Voltage										
Switches	Reset Switch for System On/Off, Display Stop Switch										
Led Indications	UPS On, Grid Charging, Battery Low / High, Overheat, Overload, Grid High / Low, Grid Frequency Out										
Environment Standard Compliance	IP20, IP21(Optional)										