

5kVA/48V

ALPHA SERIES TECHNICAL SPECIFICATIONS

Connection Type	Single Phase	
Inverter output power	5KVA/48V	
Power Factor	0.8	
Battery input voltage	12V DC- 48V DC (Various models)	
Mains input voltage	230V AC, 50Hz	
Mains input range	0V-270V, 45Hz to 65Hz	
Mains high voltage withstand	Up to 440V	
AC output (Inverter)	230V ± 3%, 50Hz	
Battery full Cut-off	14.5V	
Inverter output waveform	Pure sine wave (harmonic distortion less than 1%)	
Inverter topology	Bridge type center aligned switching MOSFET based	
Battery charging voltage	Intelligent 4 stage charger constant current/constant	
	voltage SMPS charging with full charge cut off.	
Charging current	Settable from 1A to 15A	
Charging working range	120V-270V AC Mains input	
Inverter high cut-off voltage	270v	
Inverter low cut-off voltage	100v	
UPS high cut-off voltage	265v	
UPS low cut-off voltage	180v	
Battery low warning	10.5v	
Battery low cut-off	10V	
Operating temperature	00C TO 55°C	
Cooling fan auto-ON temp.	70°C	
Cooling fan auto-OFF temp.	60°C	
Storage temperature	-15°C TO 60°C	
Humidity	5% to 95% Relative humidity (Non-condensing)	
Inverter protection	Overload, short circuit, battery deep discharging	

Specification	Inverter Mode	UPS Mode
Input voltage Range	100V - 270V ± 10V	180V - 265V ± 10V
Changeover time (Inverter to mains)	Approx<=10msec	Approx<=10msec
Changeover time (Mains to Inverter)	Approx<=40msec	Approx<=30msec