

SMART

Online UPS

5KVA-10KVA 1 ϕ -1 ϕ

Features

- Double conversion online UPS
- Input power factor near unity
- Low Input current distortion
- Active power factor correction
- High efficiency
- Inbuilt galvanic isolation transformer
- Advanced network connectivity
- IGBT based design

Optional

- Mobile Connectivity
- Redundant UPS for 24X7 operation (hot standby and load sharing)
- Harmonic filter at the UPS input (Active / Passive)
- RS 232 / Remote Monitoring



Industrial grade,
long-life design

Technology	DSP with IGBT			
CAPACITY	5 KVA	6 KVA	7.5 KVA	10 KVA
DC BUS	120V / 192V	120V / 192V	192V / 240VDC	192V / 240V

INPUT

Input Voltage	230V AC Single Phase
Input Power Factor @ 100% Load	0.99
Input current harmonic distortion (THD)	<10%
Input Voltage Window	170-270V
Input Frequency	50Hz±10%
Rectifier	IGBT based Full bridge
Voltage Regulation	(+)1%
Charger Type	CVCC

OUTPUT

Inverter Type	MPWM with instantaneous sine wave control using MOSFET			
Power Factor	0.8 lag			
Nominal Voltage	230V Single Ø			
Regulation	(±) 1%			
Frequency	50Hz ± 1Hz			
Total Harmonic Distortion	<2% for linear load, <6% for non linear load			
Over Load Capacity	125% -1 Minute : 150% 5 Seconds			
Transient Response	Remains within +/- 5% & recover to normal within 20 msec			
Nominal output current	16 A	19.2 A	24 A	32 A
Crest Factor	3:1			
Mode of Operation	Designed for Continuous operation			

EFFICIENCY

Efficiency - 100% load	87%
Converter Protection	Advanced Electronic Protection for device safety backed up with MCB's & fast acting fuses
Isolation	True Online with complete galvanic isolation for comprehensive power protection.
Inverter Protection	Advanced Electronic Protection for device safety, backed up with MCB's & fast acting fuses, high speed pulse by pulse electronic device protection, over voltage or under voltage protection, Electronic over current trip with reset.

ENVIRONMENTAL

Acoustic Noise level	<60db @ 1.5 meter
Ambient Temperature	0 to 40°C
Humidity	Up to 95% RH Non condensing
Altitude	<3000 Feet above sea level (without derating)

PHYSICAL

Enclosure Protection	IP-20			
Cooling	Forced Air			
Cable Entry	Back side bottom			
Dimensions (D x H x W) & Weight	530 x 550 x 210 / 45Kg	530 x 550 x 210 / 50Kg	530 x 550 x 210 / 55Kg	640 x 660 x 240 / 75Kg
LED Indications	• Mains on • Charger on • Inverter on • Battery Low • Overload • Inverter Trip			
Protections	• Input Fuse • Input Under Voltage / Over Voltage • Over Temperature Protection • Rectifier Over Voltage • Battery Low protection • Over Load protection • Short circuit protection • High voltage transient protection & Electrostatic discharge protection			
Compatibility	Remote power monitoring using SNMP Software & Solar Power			
Testing Standard	As per IEC 62040-3			

[Protect Solar Charge Controller from direct Sunlight & Water.](#)

[Panel open circuit voltage should not to do be more than specified voltage](#)

[*Specification are subject to change without prior notice due to constant improvement in design & technology.](#)

[Authorised Dealer](#)



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