

Online UPS



10KVA-40KVA 3Ø-1Ø

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





POWER	TECHNICAL SPECIFICATIO
	ONLINE UPS 3ph-1ph
TECHNOLOGY	DSP with IGBT
CAPACITY	10 KVA 15 KVA 20 KVA 25 KVA 30 KVA 40 KVA
DC BUS	360 V
Input Voltage Input Power Factor @ 100% Load	415 V 3Ph and N 0.99
Input current harmonic distortion (THD	
Input Voltage Window	330 - 470V
Input Frequency	45-55Hz
Input PFC Power	> 0.95
	Soft start for 0 20 seconds power
Rectifier	IGBT based Full bridge
Voltage Regulation	(+)1%
Ripple Voltage	< 2%
Converter Protection	Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses
INVERTER	
Inverter Type	IGBT based MPWM with instantaneous Sinewave Control
Power Factor	0.8 lag
Nominal Voltage	220VAC / 230VAC
Regulation	(±)1%
Frequency	50Hz ± 1Hz
Total Harmonic Distortion	<2% for linear load, <6% for non linear load
Over Load Capacity	100%-Continuous : 125% -1 Minute : 150% 5 Seconds
Transient Response	Remains within +/- 5% & recover to normal within 20 msec
Nominal output current	34 A 48A 64A 80A 96A 128A
Crest Factor	3:1
Mode of Operation	Designed for Continuous operation
Waveform	True Sinewave
ISOLATION	True Online with complete galvanic isolation.
Inverter Protection	Advanced Electronic Protection for device safety backed up with MCB's/ MCCB & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip.
BYPASS	
Manual Bypass	Provided
Static bypass(Optional)	Optional Feature
EFFICIENCY	
Efficiency - 100% load	>86% to > 88 %
BATTERY	
Battery Type	SMF/ TUBULAR
No. of Batteries	30
Voltage	360 V
Battery Low advance warning at	11 v / battery
Battery Low cut off at	10.5 V / Battery
CHARGER ALARMS	CCVA
	Input / Low / Fail
	Output Overload
	Over Temperature
	Battery low
User Friendly LCD Display shows the	
	Input Voltage
	Output Voltage
	Load current
	Load current Output Frequency

TECHNICAL SPECIFICATION

POWER

	ONLINE UPS 3ph-1ph	
LED INDICATIONS (Single LED with multi function)		
	Mains on	
	UPS on	
	Battery Low	
	Overload	
PROTECTIONS		
	PROTECTING THE LOAD	
Output Under Voltage	Protects the load and its components from premature	
Output Over Voltage	failure.	
Output Single Phase prevention	Protects the connected three phase loads & its	
	components from premature failure.	
Output short circuit with pulse	Protects against false tripping & complete shutdown in case of surge	
by pulse current limit up to	power drawn by the load (non linear loads)	
200µsecs.Protects 300% for		
15 msecs,500% for 5msec &1000%		
for 1.5 msec of the rated current		
Neutral drift	Galvanic isolation provides complete isolation between output neutral	
Neutral failure	and Input & the the output is fully protected against neutral drifts,	
Lightning	voltage avalanches like lighting & input harmonics commonly found in	
EMI & Harmonics in the input	the input side.	
neutral		
High voltag transient protection &		
Electrostatic discharge protection		
as per IEC 62040-2		
•	PROTECTING THE UPS	
Input MCCB/MCB	Protects the input from very large current caused by short circuit or due to a	
	damaged internal component and avoids further damage to the equipment.	
Input Under Voltage / Over Voltage	Prevents damage of components in the input sensing & the converter devices.	
Over Temperature Protection	Protects the Inverter & Converter magnetics and switching devices against	
	premature failure.	
Ove Load protection	Protects the Inverter components against premature failure.	
Input Under Voltage / Over Voltage	Prevents damage of components in the input sensing & the converter devices.	
'High voltage transient protection &		
Electrostatic discharge protection as		
per IEC 62040-2		
External Magnetic field Protection	Protects against external power frequency magnetic field	
ENVIRONMENTAL		
Acoustic Noise level	<60db @ 1.5 meter	
Ambient Temperature	0 to 40 Deg C	
Storage Temperature	-10 to 70 Deg C	
Humidity	Up to 95% RH Non condensing	
Altitude	< 3000 Feet above sea level (without derating)	
Extreme climatic conditions	AC Environment is required if the temperature goes	
	beyond the normal operating temperature (0-40 deg C)	
PHYSICAL		
Enclosure Protection Grade	IP - 20	
Cooling	Forced Air	
Cable Entry	Front side bottom	
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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