



Power Solutions

Ensuring Seamless Growth



**1- 10 KVA UPS
(PP 11 Series)**



On-Line UPS

On-Line UPS deliver pure sine wave power and the highest level of power protection available to sensitive servers and network equipment. Double-conversion technology continually converts incoming AC power into filtered DC power, and then re-synthesizes it back into AC power with a pure sine wave. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line, plus reliable battery backup keeps network running even in the case of a blackout.

POWER PACKED FEATURES:

- IGBT based high frequency PWM Inverter
- Wide input voltage range
- Protection from spike, surges, RFI, EMI
- Constant voltage and frequency
- EPROM/Micro controller design
- Reliable double conversation technology
- Float cum boost charger
- Soft start facility
- Clean computer grade power to critical load
- Generator compatible
- High crest factor
- Less harmonic distortion
- Static bypass switch

On-Line UPS

RELIABLE DOUBLE CONVERSION TECHNOLOGY:

The double conversion technology is proven, efficient, reliable and provides clean computer grade power to critical load. The load is completely protected against spikes, surges, brownouts and power failures.

HIGH FREQUENCY PWM INVERTER USING IGBT:

High frequency PWM technology using IGBT provides high efficiency, low noise and faster transient response.

APPLICATION & USERS:

- Local Area Network (LAN)
- Data Centers/Offices
- Work Stations
- Telecommunication Systems
- Medical Equipment
- Air Traffic Control Systems
- Satellite Systems
- Industrial Equipment & Automation
- General Laboratory Equipment
- Studio, Printing and Media Equipment



PP 11 SERIES (1-10 KVA)

TECHNICAL SPECIFICATIONS

Capacity	1 KVA	2 KVA	3 KVA	5 KVA	6 KVA	7.5 KVA	10 KVA
Model No.	1000 OL	2000 OL	3000 OL	5000 OL-3	6 KOL	7.5 KOL	10 KOL
General	(i) UPSs are free from workmanship defects, sharp edges, nicks, scratches, burs etc. All fasteners fixed properly. The equipment shall be complete with all parts and all parts shall be functional. (ii) UPS enclosure's degree of protection shall be IP20/IP21 as per appendix C of IS 13947 (part 1)/1993 (reaffirmed 2004) (iii) Provision of manual By-pass facility for maintenance of UPS (iv) UPS shall supply output power and charging current at the same time.						
Technology and capability	True Online Double conversion VFI technology, with advanced PWM using IGBT technology. High Frequency PWM using IGBT technology, UPS with SPD/TVSS module.						
Switching Device	MOSFET/ IGBT						
Switching Frequency	> 10 KHz						
Input Voltage	160 V – 280V, 50 ± 3 Hz, Single phase AC (or any Voltage range as per requirement)						
Input Power factor	>0.95 (lagging)						
Output	230 V/ 220 V ± 1%, 50 ± 0.5 Hz, single phase						
KW rating of the UPS	0.8/0.9 to unity at full load						
Waveform	Pure Sinewave						
Isolation Transformer	Inbuilt/External Isolation Transformer (optional)						
Crest Factor	3:1						
Output Frequency	47-53 Hz						
Output Voltage Distortion	less than ± 5% at full load						
Efficiency	At rated output KVA rating, rated power factor, rated voltage and frequency (overall efficiency): ≥90%						
Overload Capacity	150% for 01 sec, 125% for 300 Sec. & 110% for 10 Minute						
LED/LCD Display	<ul style="list-style-type: none"> • On Battery • Low Battery • Fault 						
Protections	<ul style="list-style-type: none"> • The unit shall trip and protect the UPS beyond upper range of nominal input voltage range • Over Temperature • Short Circuits at input, output of UPS • Overload at output terminal • Over and under voltage at battery terminal 						
Alarms & Indications	<ul style="list-style-type: none"> • On Battery • Low Battery • Battery Fault 						
Cold Start capability	Provided						
Generator Compatibility	Provided (for Clean uninterrupted power when Generator is used)						
Battery Bank (Internal/External)	<ul style="list-style-type: none"> • Type: External/Inbuilt SMF VRLA Batteries • Make: Exide/ Amara Raja or as per JISC:8702 standard • Battery Stand: Provided 						
Battery Charging	10 to 12 Hrs.						
Charger Capacity	Minimum 10% of Battery AH						
Noise (dB), Temperature and RH	< 45 dB (1 meter), 0-40°C, 0-95 % (No condensation)						
Protection	IP20/IP21						
Other Features Optional							
Communication & Interface	Suitable Interface (RS232/RS485) Port and software enable to user to supervise while working on platform such as XP/Windows/Linux/VISTA etc. SNMP communication offers so that critical parameters of UPS can be monitored from remote position.						
Parallel Redundancy	Parallel Redundancy/Hot standby modes						
Bypass	Static Bypass system for Automatic Transfer						
STANDARD							
Certification	ISO 9001, ISO 14001, ISO 27001, ISO 45001, RoHS, & BIS certified						
Safety Standard	IEC/EN-62040-1						
EMC Standard	IEC/EN-62040-2; IEC/EN-62040 -3, Complying to CE						

*In the interest of continuous product improvement, all specification is subject to change without notice.

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