

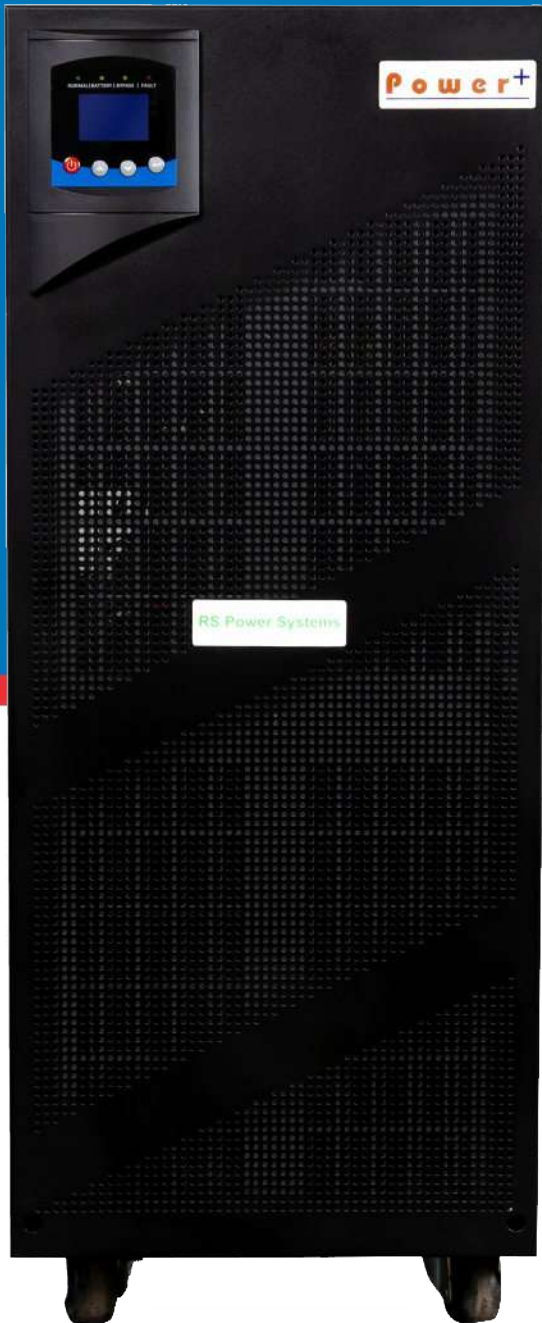


Power Solutions

Ensuring Seamless Growth



10 - 30 KVA
(PP 313 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



TECHNICAL SPECIFICATION

Rating	10 KVA	10 KVA	15 KVA	15 KVA	20 KVA	20 KVA	25 KVA	25 KVA	30 KVA	30 KVA
	(3-1)	(3-3)	(3-1)	(3-3)	(3-1)	(3-3)	(3-1)	(3-3)	(3-1)	(3-3)
General	(i) UPSs should be 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 IP21 (iii) Provision of manual By- pass facility for maintenance of UPS (iv) UPS shall supply output power and charging current at the same time. (v) DC disconnect Switch with Protection (vi) Static Transfer switch (External/Internal)- Automatic Bidirectional and take care of 100% uninterrupted load transfer. Transfer Time: <4m sec. (vii) UPS shall have cold start facility (viii) Provision of Phase Sequence Corrector for Phase reversal protection.									
Technology	True Online Double conversion DSP controlled UPS with advanced IGBT/PWM technology and digital microprocessor controls in all aspect as per IEC/other international standards.									
INPUT										
Voltage Range	380/400/415 VAC±15% for 3 Phase +N + Earth					(or any Voltage range as per requirement)				
Line Low/high cutoff	350 VAC - 480 VAC									
Dual Input	Provision of separate supply for mains and bypass									
Input Frequency	45 to 65 Hz or better									
Power Factor	≥0.90(Full Load)									
THDi	<5% at 100% Load									
OUTPUT										
Inverter Design	IGBT based PWM with Digital control									
Voltage Range	<ul style="list-style-type: none"> 220/230/240 VAC ±1% for Single phase 380/400/415 VAC ± 1% for Three Phase +N 									
Voltage Regulation	<ul style="list-style-type: none"> ±1% for balanced load ±2% for 100% unbalanced load 									
Output Power Factor	≥0.90									
Voltage Distortion	Linear Load<3% , Non-Linear Load <5%									
Overload capacity	100 -125% for 10 min., 125-150% for 60 Sec. then shift to bypass									
Crest Factor	3:1									
Efficiency	≥ 90%									
Output Frequency	50 Hz ± 0.1%									
Waveform	Pure Sine Wave									
Isolation Transformer	Inbuilt/External Isolation transformer (Optional)									
Response Recovery Time	40ms(max.)									
Bypass	<ul style="list-style-type: none"> Provision of Automatic and Manual bypass control Manual Maintenance bypass 									
Battery Type	SMF(VRLA) confirming to JISC : 8702-1:2003/Tubular/Lithium Ion									
ENVIRONMENT										
Operating Temperature	0 - 40°C									
Humidity	95° C % Non - condensing									
Storage Temperature	-20°C to 55°C									
Noise	<60 dB (1meter)									
Protection	IP20/IP21									
GENERAL										
Display & Control	LED/LCD									
Protection	<ul style="list-style-type: none"> Output Overload Protection Short circuit protection at output of UPS Output AC Over and under voltage at battery terminals. Over temperature. Input Over/Under voltage protection. Battery low/over charge protection. Inbuilt/external Surge Suppressor (Input & Output) 									
Indications	<ul style="list-style-type: none"> Charger ON/ Mains ON. 									

	<ul style="list-style-type: none"> • Mains Normal/ Abnormal. • Battery on Charge. • Load on bypass. • UPS ON. • Inverter ON. • Audible alarm for mains failure, battery low pre- alarm, battery low trip and inverter trip.
Meters	Provision of Digital Meter for monitoring the following parameters: <ul style="list-style-type: none"> • Input/output AC voltage • Input/output AC current • Input/output AC frequency • Battery Bus voltage
LCD	Display Input/ Output voltage, Frequency, Power, Power Factor, Battery voltage, Current , battery Status, Load Percentage, UPS status, History record, Set parameters.
Alarm	<ul style="list-style-type: none"> • Mains over/under voltage • UPS is on battery/Bypass Operation • System fault • Battery charging failure • Inverter Overload
Communication	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.
Certification	ISO 9001, ISO 14001, ISO 27001, OHSAS, RoHS, CE Compliant
Safety Standard	IEC/EN- 62040-1, IEC/EN- 62040-2 & IEC/EN62040-3:2011
System Configuration	Load Sharing Configuration/ Standalone Configuration with external switch/Hot Standby

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