



RS Power

Power+

Power Solutions

Ensuring Seamless Growth

50 - 600 KVA
(PPM 33 Series)





Modular UPS

The PPM 33 Series is a industry-leading Modular UPS – a scalable UPS device offering flexibility with 50kVA UPS modules (available in the range of 50kVA to 600kVA). The PPM-33 series feature the latest technology of 3-level technology and PFC input control, which guarantees high efficiency. This UPS power supply is engineered for reliability and efficiency, providing adaptable power solutions for a wide range of industry applications.

POWER PACKED FEATURES:

- Advanced operation mode
- DSP controlled, double CPU controlled
- Manual maintenance bypass
- Wide input voltage range
- High output power factor
- Strong environmental adaptability
- Advanced Battery Management
- N+X parallel redundancy up to 6 units
- Compatible with generator
- Strong shock resistance ability
- High MTBF (>2, 00,000 h)
- Low MTTR (<0.5 h)
- Full protection against over-discharge, overcharge, overload.
- 12 Pulse rectifier (optional)
- Inbuilt Isolation Transformer for unbalanced load (Copper Winding)
- High reliability: True On-Line static bypass technology to provide strong overload and fault protection device. Internal manual maintenance bypass, further improve the reliability of continuous operation of the load.
- The system can be configured from 50kVA to 1000kVA in one single cabinet, 6 units in parallel for a capacity extension up to 6000kVA.

Modular UPS

- Optimized battery performance:
- Advanced battery management System (ABMS)
- Lithium battery compatible
- Automatically convert to constant current constant voltage charging technology.
- Parallel redundancy:

APPLICATIONS & USERS:

- Large/Medium Data Centers/Offices
- Telecommunication Systems
- Medical Equipment
- Air Traffic Control Systems
- Satellite Systems
- Industrial Process Equipment/Machines and Automation
- General Laboratory Equipment
- Studio, Printing and Media Equipment

PPM 33 SERIES (50-600 KVA)

TECHNICAL SPECIFICATIONS

1. RATING	50 KVA	100 KVA	150 KVA	200 KVA	250 KVA	300 KVA	400 KVA	500 KVA	600 KVA
Model	PPM-50	PPM-100	PPM-150	PPM-200	PPM-250	PPM-300	PPM-400	PPM-500	PPM-600
Battery DC Voltage (VDC)	240 to 600 VDC (Selectable) Or any DC voltage as per requirement								
Isolation Transfer	Inbuilt input/output Isolation Transformer								
2. INPUT									
Topology	Double conversion, Fully DSP Controlled, IGBT Three level PWM Design								
Voltage Range	(380 VAC / 400 VAC /415 VAC) \pm 25% 3 phase 4 wire(3P + N + PE)								
Frequency Range	50/60 Hz \pm 10%								
Power Factor	\geq 0.9/0.99								
THDi	\leq 3% on full load								
Rectifier delay start	0-60 Sec								
Input Current-limiting	0.1- 1.1 times of rated current (Settable)								
Bypass Voltage Range	\pm 20%								
3. OUTPUT									
Inverter Design	Advanced 3 level T-NPC topology								
Inverter Components	IGBT								
Voltage Range	380/400/415 VAC 3 Phase + Neutral + Ground								
Voltage Regulation	\pm 1% , No load to full load : \leq 3%								
Frequency	50/60 Hz \pm 0.1%								

Power Factor	0.9 to unity		
Total Harmonic Distortion (THD)	Linear Load <3% , Non-Linear Load <5%		
Overload capacity	<ul style="list-style-type: none"> • 105 ~110% for 1 Hour • 110 ~125% for 10 min. 		
Crest Factor	3:1		
Efficiency	≥ 95%		
Waveform	True Sine Wave		
4. BYPASS			
Feature	Hot-Swappable Inbuilt Static Bypass Module for Max. Inbuilt Maintenance Bypass Switch		
Rated Voltage	380/400/415 VAC		
Bypass Voltage Range	Upper limit: +10%, +15%, +20% can be set. Lower limit: -10% , -20% , -30%, -40% can be set.		
Rated Frequency	50/60 Hz (auto sensing)		
Bypass Frequency Range	±2% (±10% , ±20% can be set)		
Transfer time to Bypass	>5 ms		
Overload Capacity	15 times the rated current (10 ms), 5 times the rated current (5s)		
5. ENVIRONMENT			
Operating Temperature	0 – 40°C		
Humidity	0 – 95° C % Non – condensing		
Storage Temperature	-25°C to 55°C		
Altitude	≤1000 m		
Noise	<50 dB (1 m away from the Unit)	<50 dB (1 m away from the Unit)	<50 dB (1 m away from the Unit)
6. GENERAL			
Protection	<ul style="list-style-type: none"> • Overload • Short circuit • Over and under voltage. • Manual and bypass facilities • Battery Low voltage • Over temperature • Fan failure 		
Indicators	<ul style="list-style-type: none"> • Charger On/ Mains presence. • Mains Normal/ Abnormal. • Load on bypass. • UPS On, UPS Trip. • Audible alarm for mains failure, battery low pre- alarm, battery low trip and inverter trip. 		
Meters	<ul style="list-style-type: none"> • AC Input/ Output voltage • AC Output current • Battery voltage • Battery charging & discharging current • Output frequency 		
Degree of protection	IP20/IP21		
7. PANEL DISPLAY			
LED	Indicate the status of Input, Inverter, bypass, battery, and output.		
LCD	Display Input/ Output voltage, Frequency, Power, Power Factor, Battery voltage, Current, battery Status, Load Percentage, UPS status, History record, Set parameters. (Minimum 5 Inch LCD touch screen)		
8. COMMUNICATION			
Interface	Dry contact RS 232, RS485, SNMP Card(Optional)		
Options	Harmonic filter, SNMP adapter, LBS cable, Battery Temperature Sensor, Battery Ground Fault Detection, Bypass current sharing inductor.		
9. Certifications			
ISO	ISO 9001:2015, ISO 14001:2015		
Health & Safety	OHSAS 45001, RoHS Compliant		
Standards	IEC 62040-1, IEC 62040-2 & IEC 62040-3 : 2011 and CE Compliant		

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

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