



Power Solutions Ensuring Seamless Growth

UPS (400-900 KVA)



On-Line UPS (400KVA to 900KVA)



On-Line UPS

The PPH 33 Series 400KVA-900KVA Industrial Backup Power Online UPS equipped with advanced features, including a switch mode power supply and a power backup system. Specifically crafted for industrial applications, the PPH 33 Series UPS serves as both an industrial UPS power supply and a UPS with transformer, ensuring optimal performance and protection for critical equipment. This Series UPS can work in parallel and expand its power capacity. This series UPS is high reliable and have good impact resistance, it can supply safe and reliable protection for load.

POWER PACKED FEATURES:

- Advanced operation mode
- DSP controlled, double CPU controlled
- Built-in manual maintenance bypass switch
- Output isolation transformer
- Allowing for 3 phase 100% unbalanced load
- Isolated air duct design
- Employing phase-locked loop technology alongside electronic static bypass switch
- Wide input voltage range
- High output power factor
- Strong environmental adaptability
- Advanced Battery Management System
- Optimized battery performance
- Parallel configuration up to 8 units per redundancy (N+1)
- Compatible with generator
- Strong shock resistance ability
- High MTBF (>2,00,000 h)
- Low MTR (<0.5 h)
- Full protection against over-discharge, Overcharge, overload.
- 12 Pulse rectifier (optional)
- 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.

On-Line UPS

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

Strong Points

- The Best protection for your load
- Robust & resilient design.
- VI mode compatible.
- User friendly
- High availability and cost-effective equipment

Intelligent Management

- Automated self-aging testing
- Surge/overload/short circuit/overheat protection
- Graphical touch screen display multiple languages
- Support RS232/RS485, SNMP
- Parameters and status display in real-time on the PC

PPH 33 SERIES (400-900 KVA)

TECHNICAL SPECIFICATIONS

1. RATING (kVA/kW)	400 KVA	500 KVA	600 KVA	700 KVA	800 KVA	900 KVA
Model	PPH-400	PPH-500	PPH-600	PPH-700	PPH-800	PPH-900
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) True Online Double conversion VFI -SS-111 technology, with advanced PWM using IGBT technology. High Frequency UPS with SPD/TVSS module complies with IEC/EN 62040-3,Class-1					
2. INPUT						
Rated Voltage	380V/400V /415V (3Ph+N+PE)					
Voltage Range	+ 20%, -30% (Configurable)					
Frequency Range	50/60 Hz ±10%					
Power Factor	≥0.9/0.99					
THDi	≤3% on full load					
Rectifier delay start	0-60 Sec					
3. OUTPUT						
Inverter Components	IGBT					
Voltage Range	380/400/415 VAC ±1% 3 Phase + Neutral + Ground					

Voltage Tolerance Static	Static ± 1 , Dynamic ± 3					
Output Voltage stability by load Variation	No load to full load					
Frequency	50/60 Hz $\pm 0.1\%$					
Synchronized with bypass mains(%)	± 2 (1-5 selectable)					
Synchronized with internal clock(%)	± 0.1					
Nominal Active Power(kW)	400	500	600	700	800	900
Total Harmonic Distortion	Linear Load <3% , Non-Linear Load <5%					
Maximum overshoot and Under shoot of output rated voltage	4%					
Overload capacity	105~10% for Continuous, 110 ~125% for 10 min., 125~150% for 60 Sec.					
Crest Factor	3:1					
Efficiency	Online Mode Up to 96% & ECO mode Up to 99.3%					
Waveform	True Sine Wave					
4. BATTERY						
Type	SMF/VRLA/Li-Ion,Ni-Cd					
Battery DC Voltage	384 to 600 VDC (Selectable) Or any DC voltage as per requirement					
Battery recharge time	6 to 8 Hours (after complete discharge to 90% charge) and charge rating: Battery recharge time to 90% charge after 100% DoD					
5. BYPASS						
Rated Voltage	380/400/415 VAC					
Bypass Voltage Tolerance	+10%,					
6. ENVIRONMENT						
Operating Temperature, Humidity	0 – 40°C, 0 – 95° C % Non – condensing					
Noise	<70 dB (1 m away from the Unit)	<70 dB (1 m away from the Unit)	<71 dB (1 m away from the Unit)			
Altitude	1500 m no derating,1500 to 3000 m derate power by 1 % per each 100 m increase					
7. GENERAL						
Protection	<ul style="list-style-type: none"> • Over load at UPS output terminal • Short circuit Current for 200 ms(Up to 2.0In) • Over and under voltage. • Manual and bypass facilities • Battery Low voltage • Over temperature • Fan failure 					
Alarms & Indications	<ul style="list-style-type: none"> • Charger On/ Mains presence. • Battery charging and discharging • Output Over Load with Audible Alarm • Low Battery Voltage with Audible Alarm. • Audible alarm for mains failure, battery low pre- alarm, battery low trip and Over temperature. 					
Meters	<ul style="list-style-type: none"> • AC Input/ Output voltage • AC Input/ Output current • Input/ Output Power • Input/ Output Power Factor • Battery voltage • Battery charging & discharging current • Input/ Output frequency • Alarm history • Faults Alarm 					
Degree of protection	IP20/IP21					
8. PANEL DISPLAY						
LED/LCD	Display Input/ Output voltage, Frequency, Power, Power Factor, Battery voltage, Current, battery Status, Load Percentage, UPS status, History record, Set parameters. (Graphical touch screen LCD Display)					
9. COMMUNICATION						
Interface	Dry contact RS 232, Modbus/TCP,RS485, SNMP					
Options	Harmonic filter, SNMP adapter, LBS cable, Battery Temperature Sensor, Battery Ground Fault Detection, Bypass current sharing inductor.					
10. Certifications						
ISO	ISO 9001:2015, ISO 14001:2015, ISO 27001, ISO 50001					
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 is subject to change without

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