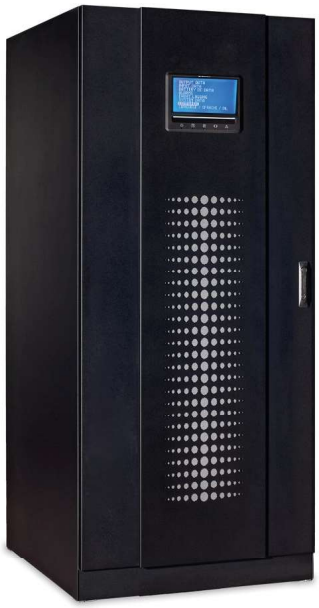

XRP Pro*Xtend* HP ONLINE UPS

Critical Power Protection, Zero Downtime!

The **XRP Pro*Xtend* HP** UPS presents optimized robust power protection & performance, highest availability & versatility for harshest industrial environments, healtcare and datacenter applications whilst reducing TCO & minimising the time for ROI.

Key Features
* IGBT rectifier, IGBT inverter, PWM technology
* Built-in output isolation transformer
* DSP controlled, highly-efficient

Key Applications

Industry & Process Control | Data Centers & IT Environment | Healthcare Applications & Facilities | Telecom Applications | Emergency Power | Transportation | Oil & Gas | Power Plants | Banking & Finance

Product Snapshot

Delivers An Outstanding Power Performance & Increased Power Quality

- True VFI | online double conversion design guarantees the complete isolation of critical load from any mains disturbances.
- High frequency, IGBT rectifier & inverter design via PWM technique presents active power factor correction at input which lowers THDi at input & maximizes the input power factor as > 0,99.
  This leads minimized generator : UPS sizing, less investment and costs due to very low harmonics. The system reduces the effect on utility and the loads connected to the same network with the ups itself.
  IGBT design at the inverter stage also brings high output power as 0,9 or 1 Unity PF [kVA=kW] while reducing the THDv as low as 1%.
- Twin DSP microprocessor control offers maximized reliability, total protection of UPS & critical load aganist failures & damages, unbeatable parallel redundant operation in business-critical environments & applications.
- Compact design which brings ease of transport, installation and maximizes power density in minimum footprint as low as 1,45 m2 for a 250 kVA UPS.
- Its built-in output isolation transformer brings greater adaptability, versatility in system configurations, higher immunity to harmonics, sudden inrush currents & energy backfeed generated by the load & environments with with high RFI [loads compliant like CNC, CT]

Controlling Both CAPEX and OPEX

- Delivers industry leading AC~AC online double-conversion efficiency without sacrificing reliability. Thanks to its highly efficient design, savings can reach up to 35% in dissipated energy in one year compared to traditional legacy UPS systems resulting in a faster payback period of 4 years as ROI.
- HVAC systems and cooling infrastructure initial investment is kept at minimum while cooling costs such as power, maintenance of HVAC units are at minimum. Keeping power & cooling infrastructure cost at minimum [CAPEX] along with operating costs at minimum [OPEX], **Pro*Xtend* HP** gives the power of control.
- Scalability - Pay as You Grow! Capacity can flex to meet power infrastructure growth by adding an additional ups in the field, ease of expansion from medium-sized installations to hyperscale infrastructures.

The UPS XRP Pro*Xtend* HP: Power Protection & More

The **XRP Pro*Xtend* HP** is a next-generation VFI | online double conversion high frequency three phase UPS which offers high electrical & mechanical robustness, high reliability for various industries & applications.
The UPS uses the latest IGBT-PWM technology & DSP control to provide maximum power protection performance, increased power quality & clean, continuous power for any type of application.

The UPS **Pro*Xtend* HP** offers one of the lowest TCO & fastest ROI in the industry with its high efficieny values and power density. Its robust design, proven reliability and maximised availability which dramatically decrease operational downtimes and costs during its lifetime and true scalability makes it indispensible to various industries worldwide.

Advanced battery care design, zero impact on utility, generators & loads connected to the UPS itself also makes it superior by the proven data aganist traditional legacy ups system along with many rivals existing in the market.

The UPS **Pro*Xtend* HP** is engineered to meet the needs of demanding environments & businesses worldwide.

Advanced Battery Care

The UPS **Pro*Xtend* HP** provides extended service life for batteries via its three stage charging mode. Thanks to its innovative software helps the user to monitor battery health & remaining back up period, extended scalable battery runtimes is not a matter with the UPS **Pro*Xtend* HP**.

Reliability, Availability and Serviceability (RAS)

Maximized availability and reliability by the power engineering at its top level, **Pro*Xtend* HP** offers very robust & reliable power protection, this also leads minimized downtime and highest level of availability.
Very high level of MTBF [Mean Time Between Failures] and very low MTTR [Mean Time to Repair] ensures the critical load not to fail for its duty.
Serviceability is a measure of the system to be recovered after a disaster. A min. of 15 mins. of enough for a technician to diagnose and recover the system to reduce the downtime for business.

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Technical Specifications

UPS Rating

Rated Power [kVA]	160	200	250	300	400	500	600	
Active Power [kW] [for Model S]	128	160	200	240	320	400	480	PF = 0.8
Active Power [kW] [for Model E]	144	180	225	270	360	450	540	PF = 0,9

General Characteristics

MTBF/ MTTR	Over 250000 Hours/ Below Than 15 Minutes
UPS Type & Technology	VFI | Online Double Conversion [Complete Isolation of Output Load with Any Mains Disturbances] High Frequency Operation, IGBT Rectifier & Inverter, Twin DSP Microprocessor Control via PWM Technique
62040-3	COMPATIBLE
Power Factor	0.9 (as Standard, PF : 0,8 Version is Available)
Input Voltage Range	-45% ~ +27% [at 64% Rated Load]
Output Isolation Transformer	Built-in, Standard, For Heavy Duty Applications
True Redundancy	N+X, N+1 Redundant Configurations
Parallel Configuration [N+1]	Up To 8 Units
Standard Protection Features	Input Power Limiting, Phase Reversal, Power Module Over Temperature, Over Current, High Temperature Alert, Smart Short Circuit, Regenerative Load, Current Limiting, Charging Current Limiting, Temperature Compensated Charging. Deep Discharge Protection with Auto Cut-Off
Operating Conditions	20 °C, <1000m Above Sea Level, <45% to 55% RH, for Best Performance and Optimised System Lifetime/ Health
Cooling/ Isolation	Forced Air Cooling via Redundant Fans, Smart Fan Speed Control
Display & Parameters	Model E with 0.9 PF Mimic LEDs are not available, Graphical Flow Diagram is Used for Utility, Bypass, Battery, Rectifier, Inverter & Load Equipped with 3,5" Graphical Touchscreen LCD Display : *Input, Bypass, Output Voltages* **[V]** & Frequency **[Hz]**, Input & Output Currents **[A]**, Load Currents **[A]**, Output Appearent Power [VA], Output Active Power [W], Output PF, Load Percentages [%] for Each Phase, Battery Voltages for + & - Strings, Battery Current, Battery Temperature [°C], Remaining Battery Back Up Period [mins.], DC Bus Voltages for + & - Strings, Internal Temperature [°C], Cooler Heatsink Temperature [°C], 512 pcs Events Log
Maintenance Bypass	STANDARD
Material [Casing]/ Colour	BLACK
Cable Entry	REAR/ FRONT BOTTOM

Efficiency

AC~AC Mode	Up To 95%
Eco-Mode	> 98%
DC~AC/ Battery Mode	< 97%

Input Characteristics

Rated Voltage & Range	380/ 400/ 415 VAC 3P+N+PE -15% ~ +27% [at 100% Rated Load] -45% ~ +27% [at 64% Rated Load] -64% ~ +27% [at 42% Rated Load]
Rated Frequency & Range	50/ 60 Hz ± 10% [Online Mode]
Power Factor	> 0,99 Active Power Factor Correction Circuitry
Current Distortion [THDi]	< 3%

Battery

Rated Voltage [DC]	720 VDC - 60*12VDC Maintenance Free Sealed Lead Acid - VRLA
DC Input Voltage Range	600~810 VDC
Intelligent Battery Management Charging Capacity Operating Temperature	Temperature Compensated 4 Stage Charging, Deep Discharge Protection, Scheduled/Automatic & Manual Battery Test, 25% of Rated Power, 20°C - 25°C for Longer Battery Lifetime

Output Characteristics

Rated Voltage & Accuracy	380/ 400/ 415 VAC 3P+N+PE < ±1% at 100% Rated Linear-Static Load, < ±2% at Non-Linear Load; < ±5% at Dynamic Loads
Rated Frequency & Accuracy	50/ 60 Hz (Selectable), ±1% (Synchronized to Mains) ±0,01% (Free Running Mode, Selectable)
Power Factor	0.9 (as Standard, PF : 0,8 Version is Available)
Voltage Distortion [THDv]	2% (at 100% Linear Load)
Crest Factor	3:1
Unbalanced Load & Acceptable Load PF	Compatible with Operation on 100% Unbalanced Load 0,9 Leading to 0,9 Lagging without Any Degradation
Overload Operation	10 mins @ 100% ~ 125% Rated Load 60 seconds @ 150% Rated Load Switches to Bypass Line over 150% Rated Load

Static Bypass

Rated Voltage & Range	380/ 400/ 415 VAC 3P+N+PE ±10%
Rated Frequency & Range	50/ 60 Hz, ±6% [Adjustable]

Communication & Supervision

Remote Monitoring &Management	Model E with 0.9 PF Standard (Available As Hardware & Software): RS232 Serial Comm. Port, RS485 (MODBUS) Serial Comm. Port, SNMP Slot, EPO-Emergency Power OFF Button, Generator Interface, Programmable 4 pieces Dry Contacts from Front Panel for Any of The Following Signals : General Alarm, Mains Failure, Battery Failure, Output Failure, Load on Bypass, Output Overload, High Temperature Optional (Standard in Software, Optional as Hardware): SNMP - Network Management Kit [External or Internal], Remote Monitoring & Management Panel, TCP/IP converter, GSM/GPRS Modem, Communication Ports Multiplier.

Environment

Operating Temperature Range Prespecified Operating T. Storage Temperature	0°C - 40°C/ 20°C - 25°C / -30°C ~ 60°C
Altitute/ Relative Humidity	< 1000m above sea level/ < 95% (non-condensing)
Noise	< 62 dBA < 67 dBA

Certifications

Safety	EN 62040-1
Electromagnetic Compability [EMC]	EN 62040-2
Performance [VFI-SS-111]	EN 62040-3
Safety	EN 60950-1 Information Technology Equipment
Quality Management	CE, ISO 9001:2015, ISO 14001:2015

Optional Features & Accessories

Custom Input Voltage Range	Optional
IP Classified Enclosure	Available from IP21 ~ IP 66
Others	Paralelling Kit, Network Management Kit, External Bypass, Remote Monitoring & Management Panel, UPS Looking Battery Enclosures...etc

Physical *UPS Rating [kVA]*	160	200	250	300	400
Dimensions [mm]	980*870*1950		1340*1080*1950		
Weight [kg]	570	760	785	875	1000
Protection Degree	IP20 (Standard)				

UPS Rating [kVA]			Model Names & Codes		
160	200	250	XRP09160HPPX	XRP09200HPPX	XRP09250HPPX
300	400	500	XRP09300HPPX	XRP09400HPPX	XRP09500HPPI
600	800		XRP09600HPPI	XRP09800HPPI	

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