

RHIN PLUS SERIES

On-line UPS double conversion from 4,6 to 10 KVA



Description



The Rhin Plus series has available input power factor correction, high efficiency and parallel redundant capability that provides a superior level of power quality for sensitive electronic equipment and computer loads.

The Rhin Plus series has field proven Digital Signal Processor DSP with SMD techniques that gives user high reliability and greater immunity from utility power problems. The front display panel provides all major systems parameters and operational status of the UPS that include full diagnostics for simple, easy servicing.

Rhin Plus convertible series UPS uses a patented inverter control technology that allows it to achieve N+1 scalable redundant power without the use of additional components. Rhin Plus series convertible parallel configuration also eliminates any single point of failure.



Rhin Plus series 6 KVA

Features

- > Online UPS double conversion
- > Microprocessor digital control technology
- > Power: 4,6/6/10 KVA
- > Tower and rack convertible
- > Visual alarms (led & LCD) and acoustics in the case of mains failure
- > Reduced harmonic distortion of output signal
- > Wide input voltage range
- > Battery mode start up without mains line
- > Protections against overvoltages, short-circuits and low battery voltage
- > LCD display
- > RS232 connection type + and monitoring software
- > Cables also included: 2xIEC cables, 1xRJ11 cable for modem protection and 1xUSB cable for equipment monitoring
- > Extended battery options available
- > ECO mode selectable by user: The UPS will work permanently on bypass mode and will only transfer to on-line mode (inverter) when UPS detects any input anomaly. By doing that UPS increases its efficiency
- > Programmable shutdown
- > High input power factor ≥ 0.98
- > Standard format 19 inches
- > Manual bypass (optional)
- > SNMP card (optional)
- > Rail kit UPS cabinet holders included

domestic use

network

data centers

medicine

telecommunications security

industrial



NON - STOP POWER



GENERAL SPECIFICATIONS			
Model	Rhin plus 4,6	Rhin plus 6	Rhin plus 10
Power KVA	4,6	6	10
GENERAL			
Technology	On-Line, double conversion, parallel		
Overload	Inverter supply: up to 105/125% for 20 sec Bypass supply: up to 105/125% for 90 sec		
INPUT			
Voltage range	160~280 Vac		
Frequency	45~65Hz		
Power factor	Up to 0,99 at 100% linear load		
OUTPUT			
Power (KVA/KW)	4,6/3,25	6/4,2	10/7
Voltage (normal mode)	200/208/230/240 Vac (selectable)		
Output frequency	50/60 Hz (self-sensitive) ±1Hz±3Hz (adjustable)		
Type of wave	Sinewave, total harmonic distortion <3%, (full load)		
Efficiency AC to AC	Up to 90% (normal), (ECO: up to 95%)		
Crest factor	3:1		
BATTERIES & BACKUP TIME			
Standard battery	VRLA: Sealed lead acid maintenance free		
Backup time (full load)	From 5 to 90 min		
Charge time	4 hours to 90%		
Voltage	240 Vdc		
Batteries cabinet model	Internal batteries	External batteries	
INDICATORS			
LCD display/Leds	Mains failure, UPS failure, overload, low battery		
Acoustics	Mains failure, overload, low battery		
COMMUNICATION			
Communication software	UPSilon 2000		
Standard interface RS232	Input/output voltage Frequency/ Temperature/ Charge level Battery level		
SNMP card	Included		
Input/Output connection	Terminals		
External battery connection	Plug & play		
Communication slots (optional)	2 nd RS232,USB,RS485, relay contact, SNMP/WEB card		
PROTECTION			
Current limitation	Yes		
Static by-pass/ manual	Yes / optional		
RFI filter	Yes		
Battery charger protector	Yes		
Display	LCD + LED: Line mode,back-up,ECO mode,Bypass supply, Battery low/bad/disconnect, Overload Transferring with interruption and UPS fault. LCD: Input voltage/frequency, output voltage/frequency, load percentage, battery voltage & inner temperature.		
Self diagnostics	Upon Power-on, Front panel setting & software control, 24 hour routine checking		
STANDARDS			
Marks	CE		
Directives	EN 62040-1-1:2003, UL1778, EN 62040-2, EN 61000-3-2, EN 61000-3-3, FCC A class, CE, UL		
OTHERS			
Operation temperature	0-40°C		
Relative humidity	0C°-90C° (non-condensing or ice)		
Altitude without decreasing power	2000 meters over sea level		
Acoustic level	<50dBA		
UPS dimensions WxHxD (mm)*	440x680x176 (4U)	440x680x88 (2U)	440x680x132 (3U)
Battery module dimensions	-	440x680x88 (2U)	440x680x132 (3U)
UPS/ Battery weight (kg)	52/-	24/40	26/52

* Model 4.6 KVA 10' internal battery.
Please consult weights and dimensions for different voltages.

Specifications may be changed without notice.