PowerHub

Manage both your UPS and your energy proactively

Prime III RT UPS

The Prime III RT UPS is an ideal power protection solution for use in industries like finance, communications, insurance, medicine, and enterprises. It is a new generation Rackmount / Tower convertible series with up to 96 percent efficiency in ECO mode. The UPS is one of the most adaptable UPS available because of its form factor design and broad range of installation options.

The PowerHub Prime III RT UPS produces only pure sine waves in battery mode. As a result, the connected devices receive high-quality electrical input and continue to function normally even during a power loss.

Product Highlights

Reliability: The Prime III RT UPS maximizes the availability of your IT systems with extended battery duration choices, hot-swappable batteries, internal bypass, and optional maintenance bypass.

More power: The Prime III RT UPS offers up to 10% more wattage than conventional UPS, allowing you to connect more devices.

Efficiency: With up to 90% efficiency rating in double conversion online mode means efficiency energy management and low heat dissipation for energy saving and improved reliability.

Reduce battery charging time: Batteries may now be charged up to 90% of their capacity in under 8 hours. Thanks to the built-in chargers of the UPS and the External Battery Pack (EBP).

Simple LCD interface: The simple LCD interface from Prime III RT UPS offers a graphical display that gathers all important UPS data in one place. Information and settings can be made using the panel buttons.

Application Areas

- Data Centers
- Automation industries
- Server Farms
- Workstations
- Telecom

PowerHub UPS saves money and energy without sacrificing availability

Optimizing UPS density with an industry-leading power factor
RackTower 1kVA – 3kVA UPS

At a Glance:

- Rack/Tower convertible design
- Online double conversion with full digital control
- Wide input voltage range:110~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Maximum charging current can be expanded to 6A (Extended model)
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Hot-Swappable battery design
- Cold start
- Intelligent fan speed regulation
- Versatile LCD human-computer interface
- Multiple communication interface:RS232 (USB/EPO/Relay card/SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage and fan fault alarm

Features

Wide Input Voltage Range:
110-300VAC permits erratic power conditions and minimizes battery transfer.

ECO Mode
Through the LCD display, the input voltage regulation range can be adjusted or updated in energy-saving mode.

Generator Compatible
This is to ensure that the loads receive clean, uninterrupted power during a prolonged power outage.

Cold Start function
Enables connected hardware to be started in an emergency when the UPS is not powered.

Intelligent Battery Management
Maximizes battery performance through intelligent precision temperature compensated charging.

USB Port / Serial Port
Provides management of the UPS via USB/serial communication.

Power Conditioning
Provides protection for connected loads against surges, spikes, lightning, and other power disturbances.

Built-in Automatic Bypass
Guarantees uninterrupted power to the load even in the case of a catastrophic UPS failure.

Emergency Power Off (EPO)
In an emergency, shut off power to any connected devices right away.

Extended Runtime Models Available
Scale runtime from minutes to hours by adding external battery packs, meeting the demands of long duration applications.

Load Shedding Functions

In order to increase runtime, power from non-essential equipment can be removed in order to give the more important equipment more run time before a shutdown is necessary.

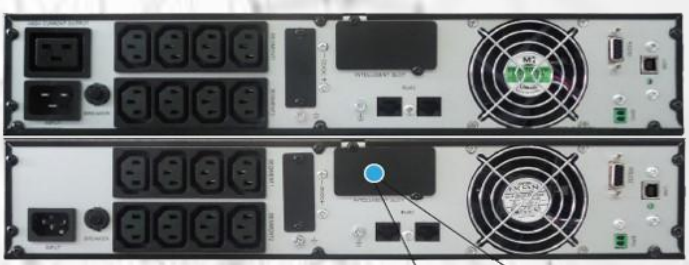
Hot Swappable Battery

Hot-swappable batteries are easily accessible via the front panel and can be replaced by the user directly.

External Battery Pack (EBP)

Longer runtime can be achieved by adding with External Battery Pack.

Prime III RT 3kVA UPS



Prime III RT 1kVA UPS

Graphical LCD interface

The Prime III RT UPS makes local control simple with an LCD interface that tilts 45 degrees for ideal viewing, rotates to meet rack and tower installations, and delivers clear information on UPS status and measurements.

Remote Monitoring

The Prime III RT UPS may connect to an Ethernet network and the Internet via the optional NetAgent SNMP Card, providing real-time monitoring and control of UPSs across the network using a regular web browser, SNMP-compliant network management system, or power management software.

Relay card

SNMP

Relay Card

This UPS management accessory provides six dry contact outputs and one relay input interface.

Ideal applications:

- IBM server, personal PC and workstation equipment
- Auto-controlled industrial equipment and communication applications

SNMP Card

SNMP Card provides direct communication with your PowerHub UPS and monitors the following:

- UPS status: load, battery charge, voltage
- Battery status: healthy, capacity & runtime
- Shutdown Clientmate: remotely shuts down and reboots server

PowerHub

TECHNICAL SPECIFICATION

PowerHub Prime III RT Series

MODEL		Prime III RT 1K-SS (Std) / (Ext)	Prime III RT 1.5K-SS (Std) / (Ext)	Prime III RT 2K-SS (Std) / (Ext)	Prime III RT 3K-SS (Std) / (Ext)
Capacity		1000VA / 1000W	1500VA / 1500W	2000VA/ 2000W	3000VA/ 3000W
INPUT					
Nominal voltage		208/220/230/240Vac			
Input voltage range		110~300Vac (176~280Vac @100% load)			
Power factor		≥0.99			
Frequency range		40~70Hz (50/60Hz Auto-Sensing)			
Surge Rating		380 Joules			
OUTPUT					
Output voltage		208/220/230/240Vac			
Voltage regulation		±1%			
Power factor		1.0			
Output Frequency	Line Mode	46~54Hz or 56~64Hz			
	Bat. Mode	(50/60±0.1%)Hz			
Crest factor		3:1			
Harmonic distortion (THDv)		≤3% Linear load ≤5% Nonlinear load			
Transfer time	AC to Batt.	0ms			
	Inverter to Bypass	4ms (Typical)			
Output waveform		Pure Sinewave			
EFFICIENCY					
AC mode		88%	89%	90%	90%
Battery mode		85%	86%	86%	87%
BATTERY					
Battery number		2	3	4	6
Capacity (Standard unit)		9Ah/12V			
Typical recharging time		4 hours (to 90% of full capacity)			
Charging voltage		27.4Vdc±1%	41.0Vdc±1%	54.8Vdc±1%	82.1Vdc±1%
Charging current (Max)		1A (Std) 6A (Ext)			
INDICATORS					
LED display		Line mode, Batt. mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
LCD display		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature& Remaining battery backup time			
ALARM					
Battery mode		Beeping every 4 seconds			
Battery low		Beeping every second			
Overload		Beeping twice every second			
Fault		Continuously beeping			
PHYSICAL					
UPS Dim. WxD×H (mm)		440 x 325 x 86.5	440 x 460 x 86.5 (Std) 440 x 600 x 86.5 (Ext)	440 x 460 x 86.5 (Std) 440 x 600 x 86.5 (Ext)	440 x 600 x 86.5
UPS Net weight (kg)		11.3 (Std) 5.6 (Ext)	16.5 (Std) 8.1 (Ext)	19.5 (Std) 8.5 (Ext)	26.2 (Std) 8.8 (Ext)
EBP Dim. WxD×H (mm)		440 x 430 x 86.5		440 x 550 x 86.5	440 x 710 x 86.5
EBP Net weight (kg)		17.4	22.5	31.5	44
ENVIRONMENT					
Operating temperature		0℃~40℃			
Storage temperature		-25℃~55℃			
Humidity range		20~95%RH @0~40℃ (Non-condensing)			
Altitude		<1500m,derating required when>1500m			
Noise level		<50dB at 1 Meter			
STANDARDS					
Safety		IEC/EN62040-1,IEC/EN62477-1			
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8			
Performance		IEC62040-3			

Due to ongoing product improvements, specifications are subject to change without notice.

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Rev 3.3