

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

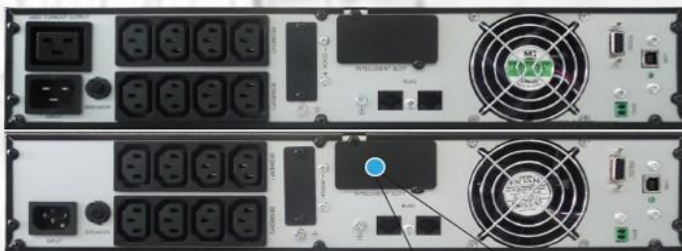
Hot-swappable batteries are easily accessible via the front panel and can be replaced by the user directly.



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



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

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.

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



TECHNICAL SPECIFICATION

PowerHub Prime III RT Series

MODEL	Prime III RT 1K-SS (Std)	Prime III RT 1K-SS (Ext)	Prime III RT 1.5K-SS (Std)	Prime III RT 1.5K-SS (Ext)	Prime III RT 3K-SS (Std)	Prime III RT 3K-SS (Ext)
Capacity	1000VA / 1000W		1500VA / 1350W		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		0.9		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% Non linear load					
Transfer time	AC to Batt.	0ms				
	Inverter to Bypass	4ms (Typical)				
Output waveform	Pure Sinewave					
EFFICIENCY						
AC mode	88%		89%		90%	
Battery mode	85%		86%		87%	
BATTERY						
Battery number	2		3		6	
Capacity (Standard unit)	9Ah/12V					
Typical recharging time	4 hours (to 90% of full capacity)					
Charging voltage	27.4Vdc±1%		41.0Vdc±1%		82.1Vdc±1%	
Charging current (Max)	1A	6A	1A	6A	1A	6A
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						
Dimension Wx D×H (mm)	440 x 325 x 86.5		440 x 460 x 86.5		440 x 600 x 86.5	
Net weight (kg)	11.3	5.6	16.5	8.1	26.2	8.8
ENVIRONMENT						
Operating temperature	0°C~40°C					
Storage temperature	-25°C~55°C					
Humidity range	20~95%RH @0~40°C (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.