

High Performance Solutions For Mission Critical Operations

ELITE IV RT UPS

The **ELITE IV RT UPS** series offers an ideal solution for safeguarding various equipment, including servers, industrial machinery, IT devices, communication systems, and networking equipment. With its comprehensive range of protective features, such as overload, low battery, abnormal AC input, short-circuit, and over-temperature protection, the Elite IV RT UPS ensures the highest level of protection for critical systems against common power issues.

This UPS is particularly well-suited for applications in the finance, communications, medical, industrial, and enterprise sectors. It guarantees uninterrupted power supply during outages, providing pure sine wave output. As a result, connected devices receive high-quality electrical input, ensuring smooth operation and reliable performance even in the event of a power disruption. The Elite IV RT series serves as an ideal power protection solution for a wide range of critical applications.



Product Highlights

Reliability: The Elite IV RT UPS enhances the availability of your IT systems through various features, including extended battery duration options, hot-swappable batteries, internal bypass, and the option for an additional maintenance bypass.

More power: The Elite IV RT provides a unity output power factor, which offers higher wattage capacity compared to conventional UPS units. This increased capacity enables you to connect and power more devices effectively.

Efficiency: The Elite IV RT, a double-conversion online UPS, stands out as the most efficient in its class. With an impressive efficiency of up to 97.6% in ECO mode and a 94% efficiency rating in normal mode, it ensures optimal power utilization and performance.

N + X Parallel Redundancy: For enhanced capacity and increased reliability, it is possible to configure the outputs of up to four UPS units to operate in parallel. Each UPS is equipped with a built-in parallel controller that facilitates automatic load sharing among them. This setup allows for greater power capacity and ensures a more robust and reliable power supply for critical systems and equipment.

Simple LCD interface: The Elite IV RT UPS features a straightforward LCD interface that presents all essential UPS data in a graphical format. This user-friendly menu allows you to access information and adjust settings easily with just a click of a button.

Application Areas

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



**PowerHub UPS saves
money and energy
without sacrificing
availability**

Online double-conversion power protection UPS with scalable runtime



At a Glance:

- Online double conversion with full digital control
- Power range: 6kVA & 10kVA
- LCD supports Rack/Tower convertible design
- N+X parallel redundancy (max. 4 units in parallel)
- Battery Group Optimization battery group: 16/18/20pcs per group (Settable)
- Wide input voltage range: 110~286Vac
- Wide input frequency range
- Generator compatible
- Automatic self test upon UPS start-up
- Multiple communication interface: RS232/USB/EPO/(Relay card/SNMP card (optional))
- Maximum charging current up to 10A
- Allows cold start
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage and fan fault alarm
- Up to 97.6% efficiency (ECO mode)

Features

Wide Input Voltage Range:

110-286VAC 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

Ensures 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.

Automatic Periodic Battery Self Test Function

UPS is able to perform automatic self test every 30 days for 1min/10mins/End of Discharge.

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 (applicable to standard & extended runtime 6 & 10 kVA models)

Extended Runtime Models Available

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

Your Power In Safe Hands



LCD Control Panel

Provides an overview of UPS status and estimated battery runtime.



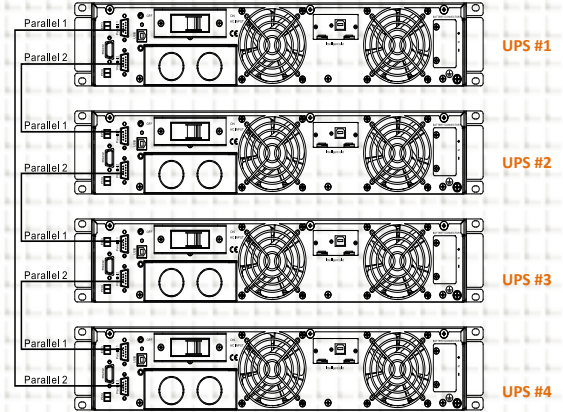
Rotational Display

Gives you the flexibility to orientate your display windows whenever you change the position of the UPS.



ECO Mode

When the UPS is linked to the AC main supply and the load is non-critical, enabling ECO mode enhances power efficiency. If there is an AC interruption, the UPS will automatically switch from bypass to inverter mode, utilizing battery power to supply electricity.



N + X Parallel Redundancy

The Elite IV RT series supports parallel operation of up to four UPS modules, allowing their outputs to work together in a synchronized manner. Each UPS module is equipped with a built-in parallel controller, which facilitates load sharing and synchronization among the units. This parallel configuration enhances the overall capacity and reliability of the UPS system, ensuring a more robust and dependable power supply for critical applications.



6kVA Elite IV RT with one EBP

Given its rack/tower convertible architecture, it has a number of strong features such N+X parallel redundancy, DSP-controlled technology, high input & output power factors, a superior input voltage window for energy savings, predicted remaining time, and ECO mode that make this UPS excellent in itself.

Optional Accessories

Relay Card

The Mini dry contact card serves to relay UPS status information to the control peripheral device through the use of dry contacts.

SNMP Card

SNMP Card provides direct communication with PowerHub UPS that supports the following features:

- Centralized ups monitoring & management
- Supports HTTPS, SSL, SSH, SNMPv3, IPv6, AES256, SHA512
- Supports RFC1628, UPS-MIB and PPC-MIB
- Supports environmental sensors
- Supports modbus on TCP/IP
- Graceful multi-OS shutdown
- Record ups event / data log



TECHNICAL SPECIFICATION

PowerHub Elite IV RT Series

MODEL		ELITE IV RT 6K-SS (Ext)		ELITE IV RT 10K-SS (Ext)	
Capacity		6000VA / 6000W		10000VA / 10000W	
INPUT					
Nominal voltage		208/220/230/240Vac			
Input voltage range		110~286Vac			
Power factor		≥0.99			
Bypass voltage range		Max.voltage:220V: +25% (Optional+10%,+15%,+20%) 230V: +20% (Optional+10%,+15%,+20%) 240V: +15% (Optional+10%) Min. voltage: -45% (Optional-20%, 30%)			
Frequency range		40~70Hz (50/60Hz Auto-Sensing)			
OUTPUT					
Output voltage		208/220/230/240Vac			
Voltage regulation		±1%			
Power factor		1.0			
Output frequency	Line Mode	±1%/±2%±/±4%/±5%/±10% of the rated frequency (Optional)			
	Batt. Mode	(50/60±0.1%)Hz			
Crest factor		3:1			
Harmonic distortion (THDv)		≤2% Linear load ≤5% Non linear load			
Transfer time	AC Mode to Batt. Mode	0ms			
	Inverter to Bypass	0ms			
Output waveform		Pure Sinewave			
Overload	Line Mode	Load≤110% last 60min; ≤125% last 10min; ≤150% last 1min; >150% turn to bypass mode immediately			
	Bypass Mode	40A (Breaker)		63A (Breaker)	
Efficiency		94% (Online), 97.6% (ECO)			
BATTERY					
Battery voltage		±96/±108/±120Vdc(Configurable)			
Capacity (Standard unit)		9Ah/12V			
Typical recharging time		6~8 hours (to 90% of full capacity)			
Charging current		10A(Max)			
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, Internal 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 625 x 86.5 (UPS) 440 x 680 x 131 (Extremal Battery Pack)			
Net weight (kg)		16 (UPS) / 63 (Extremal Battery Pack)		18 (UPS) / 63 (Extremal Battery Pack)	
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		<55dB at 1 Meter		<58dB 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		IE62040-3			

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