

## Elite V RT Li UPS Series

**Technology:** Online Double Conversion

**Rating:** 6kVA – 10kVA

**Voltage:** 208/220/230/240VAC

**Configuration:** Rack / Tower

As today's infrastructure increasingly demands compact, efficient, and intelligent backup power solutions, **PowerHub Elite V RT Li UPS** systems have become a leading alternative to conventional lead-acid UPS units. By integrating lithium battery technology and smart management systems, these UPS solutions redefine reliability during power disruptions.

The **PowerHub Elite V RT Li UPS** is engineered for high-performance in mission-critical environments, particularly within the 6–10kVA range. Its robust design includes full-spectrum protection—covering overload, low battery, abnormal input, short circuits, and thermal risks—while delivering pure sine wave output for stable power. It's an ideal solution for industries such as finance, telecom, healthcare, manufacturing, and enterprise IT.



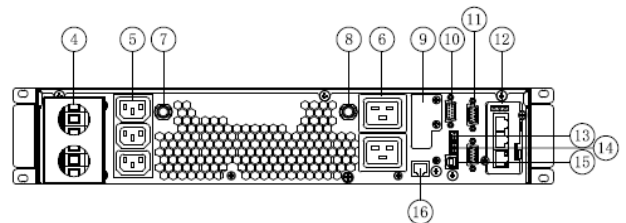
2U UPS + 2U Lithium Battery Pack

### Applications:

- Data Center
- Point of Sale
- Router, Hub and Network devices
- Commercial facility
- Precision instrument

### Product Highlights:

- Input Line to Line (L-L-GND) or Line to Neutral (L-N-GND) Configuration
- Wide input voltage range: 110~300Vac
- N+X parallel redundancy up to 4 units
- Online double conversion with DSP control
- 3-level inverter topology, boosting efficiency to as high as 95.5%
- Input current harmonics < 3%
- High output power factor at 1.0
- 3.5inch LCD touch screen display
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and over-discharge, output low voltage and fan fault alarm
- Communication port: USB, Dry contact, RS485
- Optional SNMP card / Relay Card



Rear View

(1) Suspension Loop	(2) LCD
(3) LCD Button	(4) Input & Output1 Terminal
(5) Output3 Socket C13	(6) Output2 Socket C19
(7) Output3 Breaker	(8) Output2 Breaker
(9) Battery Terminal	(10) RS232 port
(11) Parallel port	(12) Intelligent Slot
(13) MAINTAIN-AUXSWS port	(14) EPO port
(15) USB port	(16) RS485 port

Model		Elite V RT Li 6K-SS (Ext)	Elite V RT Li 10K-SS (Ext)
Capacity (VA/WATTS)		6K/6K	10K/10K
<b>INPUT</b>			
Nominal Voltage		208/220/230/240Vac	
Operating Voltage range		110-300Vac(110-300Vac @ 50% load / 176-300Vac @ 100% load)	
Frequency Range		40Hz to 70Hz	
Power Factor		≥0.99	
Input Connection	For L+N+G	HW Terminal	
	For L+L+G	HW Terminal (Install MCB on each L wire)	
Harmonic Distortion (THDi)		<3%	
Bypass voltage range		Max. Voltage: 208/220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min. Voltage: -45% (Optional -10%,-20%, -30%)	
Bypass frequency range		Frequency protection range: ±10%	
Generator input		Support	
<b>OUTPUT</b>			
Output voltage		208/220/230/240Vac	
Power Factor		1.0	
Voltage regulation		±1%	
Output Connection		Programmable: C19*2 + C13*3; Non-Programmable: HW Terminal	
Frequency Range	Online mode	±1% / ±2% / ±4% / ±5% / ±10% of the rated frequency (optional)	
	Battery mode	50/60(±0.1)Hz	
Crest Factor		3:1	
Harmonic Distortion (THDv)		<1% THD (Linear load)	
		<3% THD (Non-Linear load)	
Efficiency (AC Mode)		Up to 95%	Up to 95.5%
Efficiency (ECO Mode)		Up to 98.8%	Up to 99%
<b>BATTERY</b>			
Battery voltage (Vdc)		192	
Charging current Max (A)		12	15
<b>SYSTEM FEATURES</b>			
Transfer time		AC Mode to Batt. Mode: 0ms; Inverter Mode to Bypass Mode:0ms	
Overload	Online mode	Load ≤ 110%: last 60mins, ≤125%: last 10mins, ≤ 150% last 1min; >150% turn to bypass mode immediately	
	Battery mode	Load≤110%, last 10min; ≤125%, last 1min; ≤150%, last 10 second; >150%, 0.5 second shut down	
	Bypass mode	105%≤load≤130%, only overload alarm; ≤150%, last 10min; ≤200%, last 1min; >200%, 0.5 second shut down	
Short circuit		Shut down UPS immediately	
Overheat		Online mode: Turn to bypass; Batt. mode: Shut down UPS immediately	
Self-diagnostics		Upon power on and software control	
Audible & Visual alarms		Line failure, Battery low, Over load, System fault	
LED display		Online mode, Batt. mode, Eco mode, Bypass mode, Battery under voltage, Overload & UPS fault	
LCD display		Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Interior Temperature & Remaining Battery Backup Time	
Communication interface		USB, RS232, SNMP card (optional), Relay card (optional)	
<b>ENVIRONMENT</b>			
Operating temperature (°C)		0 ~40°C	
Storage temperature (°C)		-25 ~55°C	
Humidity range		0 ~ 95% RH @ 0~40°C (Non-Condensing)	
Altitude (m)		<1000, derating required between 1000 to 3000	
Noise level (dB)		<45dB	<50dB
Protection Class		IP20	
<b>PHYSICAL</b>			
UPS Dimension W x D x H		440×621.5×86.5 (2U)	
UPS Net weight (kg)		15	17
<b>STANDARDS</b>			
Safety		IEC/EN62040-1: 2019	
EMC		IEC/EN62040-2:2018, EN IEC62040-2:2018	
Performance		IE62040-3:2021, EN IEC 62040-3:2021	

\* (Ext) refers to long backup model, extended battery module is required  
 \* Specifications are subject to change without prior notice

MODEL		EBP for Elite V RT Li 6-10KVA
<b>BATTERY SYSTEM</b>		
Battery Type	LiFePO4	
Typical Battery Recharging Time (hours)	2 (To 90% of full capacity)	
Typical Battery Life (years)	8~10, depend on discharging cycle and ambient temperature	
System Voltage (Vdc)	192	
System Capacity (Ah)	12	
<b>PHYSICAL</b>		
Dimension W×D×H (mm)	440×684×86.5 (2U)	
Weight (kg)	34	
<b>ENVIRONMENTAL</b>		
Operating Environment (°C)	0~50	
Humidity Range	0~90%RH@0~40°C (Non condensing)	
Altitude (m)	<1000, derating required between 1000 to 3000	
Noise Level (dB)	<40	
<b>STANDARDS</b>		
Safety	ANSI/CAN/UL 1973: 2022 (Li-ion battery cell: UL1642)	
EMC	FCC 47 CFR Part 15 Subpart B, Class B	
Transportation	UN38.3	

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