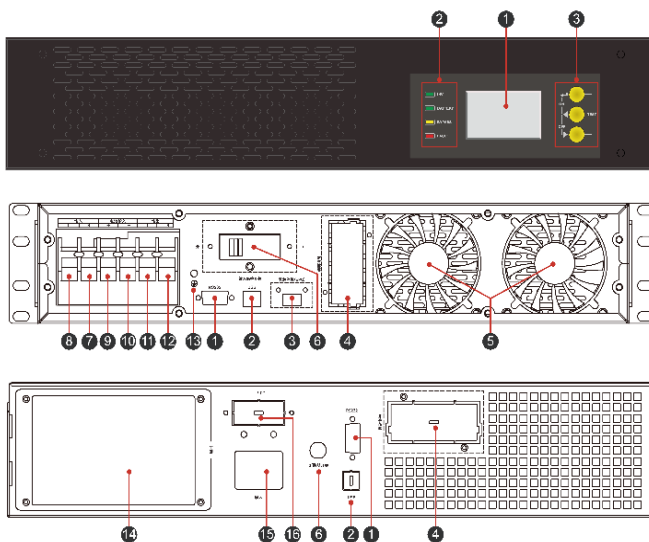# Rack mount Series (2KVA-10KVA)

The Rack mount series is a new type high-frequency online UPS. Adopts advanced DSP digital control technology to effectively improve product performance and system reliability, and higher power density small size, light weight and high work efficiency. Effectively solve power problems such as power cut-off, Grid over voltage/low voltage, voltage instantaneous drop, amplitude reduction, high voltage pulse, surge voltage, harmonic distortion, clutter interference, frequency fluctuation and provide best power for load. We adopt standard 2U rack structure.

Product performance

- With double conversion online design, zero output transfer time. Single phase input and output voltage.
- Adopt DSP digital control, excellent performance indicators, more steady and reliable.
- Adopt active power factor correction technology (PFC), the input power factor is 1, can reduced the pollution to the grid, To energy saving and reducing system investment.
- Ultra-wide input voltage range.
- Input frequency range 40-70Hz, support various fuel generators.
- With LCD LED real-time display, users can intuitively understand the UPS operating status.
- With self-detection function, can detect hidden faults of UPS in time.
- With AC input over voltage, low voltage protection, output overload protection, short circuit protection, temperature protection, battery low voltage warning protection and battery overcharge protection.
- The efficiency of the whole UPS is as high as 95.5%, which reduces the power loss of it and saves the user's use cost
- When there is no mains power, you can directly use the battery to cold start.
- With input neutral and live line detection function, avoid the reverse connection of UPS utility input.
- When utility cut-off, the UPS discharge battery in the battery mode, when the city power is recovery UPS tum on automatically and charge battery at the same time, as unattended function.
- Standard RS232 communication outlet connect UPS and computer to realize multifunctional and multi-purpose monitoring and management operations, available SNMP card (optional) to UPS remote monitoring function.

Front & Rear Panel Instruction

1. RS232 Communication port
2. USB Communication port
3. EPO port
4. Intelligent port
5. Input Switch
6. AC input neutral
7. AC input live wire
8. Battery +
9. Battery –
10. AC output live wire
11. AC output neutral
12. Ground wire
13. Output
14. Input
15. Battery

Specification 2KVA-10KVA

Model		EC2KRs	EC3KRs	EC5KRs	EC10KRs
Capacity	Rated capacity	2KVA/1.8KW	3KVA/2.7KW	6KVA/5.4KW	10KVA/9KW
Input	Input connection type	L+N+PE			
	Rated input voltage	208/220/230/240VAC			
	Voltage range	110-300VAC			
	Frequency range	50/60Hz (default), ±10Hz (settable)			
	Input power factor	≥0.99			
	Input THD	≤4% linear load			
Output	Output connection type	L+N+PE			
	Output voltage	208/220/230/240VAC			
	Output accurary	±1%			
	Output frequency	Mains mode: same as AC frequency, battery mode: 50/60Hz ±0.1%			
	THDv	≤2% linear load, ≤4% Non-linear load			
	Output power factor	0.9			
	Overload capacity	**AC mode**: 102% - 110% load: 30min/ 110% - 130% load: 10min/ 130% - 150% load: 30s/ >150% load: 200ms **Battery mode**:102% - 110% load: 1min/110% - 130% load: 10s/ 130% - 150% load:3s/ >150% load:200ms			
Transfer time	AC mode switch to battery mode	0ms			
	Mains inverter mode switch to bypass mode	4ms			
	AC priority mode	Support			
Overall Efficiency	AC mode (full load)	95.5% @ 220VAC	95.5% @ 220VAC	Peak efficiency 95.5%, Full load efficiency 95%	
	Battery mode (Full load)	91.5% @72VDC	91.5% @96VDC	Peak efficiency 95.3%, Full load efficiency 94.8% (20pcs Battery)	
Battery	Battery type	Lead acid battery			
	Number of battery	7Ah*6	7Ah*8	7AH*16	9AH*16
	Battery charge current	1KR-3KR: 1A (default); 1-2A (can be set) 1KRS-3KRS: 5A (default); 1-12A (can be set)		1-12A (can be set) 1A (default)	
	Charging mode	Two-stage/Three-stage charging			
Display	LCD	2*8 PIN/Pitch 2.54mm, support 128-bit segment code, up to 4 buttons + 4 LEDs, Can display operating mode / load / input / output, etc			
Interface	RS-232	Support: Windows 2000/2003/Vista/2008/7/Linux/Unix and MAC			
	USB	Windows Family & MAC			
	Intelligent slot (optional)	SNMP/AS400 Relay card / RS485			
Environmental parameters	Operating ambient temperature	0-40^{0}C			
	Environment humidity	20% - 95% (No condensation)			
	Storage temperature	-15 – 60^{0}C (without Batteries)			
	Altitude	The altitude should not exceed 1000m, derating above 1000m, up to 4000m (max), refer IEC62040			
	Noise	≤45dB		≤50dB	
UPS physical	Dimension (D*W*H) (mm)	440*420*88			
	Net weight (kg)	6.5	7	10	11
Battery pack	Dimension (D*W*H) (mm)	450*480*88	465*480*88	600*480*132	
	Net weight (kg)	22.5	27.8	51.36	57.28

- *All specifications are subject to change without notice*

2022 @version

ECOs Unlimited power supply