ENERTEC
POWER SOLUTIONS

EP-RT Series 1-3kVA Online Double Conversion Rack / Tower AC UPS

Key Features

- Versatile mounting - 19" rack mounting (2U rack height) or standing tower mount with a single unit.
- Online double conversion mode for increased power reliability to connected critical systems.
- Fast setup and deployment, with automatic operation.
- Configurable load segmentation control to prioritise backup power to essential systems.
- 0.99 input power factor with PFC.
- Energy saving ECO mode.
- Intuitive and informative colour LCD.
- USB & RS232 communication, optional SNMP management card.
- Emergency Power Off (EPO) port for remote shutdown/startup.
- Short circuit, overload, overheat protection.
- Battery overcharge/overdischarge protection.
- Suitable for AU / NZ, and other countries with 230Vac nominial input voltage.

Available Options:

EP-RT1000S - 1kVA / 900W
EP-RT2000S - 2kVA / 1800W
EP-RT3000S - 3kVA / 2700W
EP-RT3000L - 3kVA / 2700W Long Run (No Internal Batteries)

HELIOS
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Specifications subject to change.
Last Revision: 18 November 2024

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EP-RT Series 1-3kVA Online
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Effortless Backup Power for Your Essential Systems

The Enertec EP-RT UPS series is designed for ultimate convenience, combining robust power protection with a plug-and-play experience, requiring minimal setup and configuration. Perfect for short-term backup needs, these units are engineered to ensure your critical systems stay operational, no matter what.

Key Features & Benefits:

Flexible Installation:
- Versatile mounting options: fits seamlessly in a 19" rack (2U height) or as a standalone tower, adapting to your setup with ease.

Online Double Conversion Technology
- High quality smoothing with automatic handling of voltage spikes, distortion, and other power anomalies.
- Provides efficient and reliable backup with simple, automated operation, ensuring minimal downtime during power interruptions.

Fast Setup & Deployment
- Get up and running quickly with automatic operation and intuitive controls—ideal for quick installations and deployments.

Smart Load Management
- Configurable load segmentation allows you to prioritize and optimize connected devices for extended backup and efficiency. Priority shutdown (load shedding) and selective startup configurations.

Optimized Energy Efficiency
- 0.99 Power Factor with Power Factor Correction (PFC) ensures optimal power usage.
- Energy-saving ECO Mode reduces power consumption during low-load conditions.

Advanced User Interface & Communication
- Informative LCD with simple-to-use function keys for quick configuration and status updates.
- USB/RS232 communication and optional SNMP expansion for seamless integration into your existing systems.

Comprehensive Protection & Alarms
- Safeguards against short circuits, overloads, and overheating.
- Built-in battery overcharge and over-discharge protection extends battery service life.
- Audible and visual alarms for low voltage output and fan faults, ensuring prompt action when needed.

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EP-RT Series 1-3kVA Online
Double Conversion Rack / Tower AC UPS

Specifications

	EP-RT1000S	EP-RT2000S	EP-RT3000S	EP-RT3000L
Output Capacity	1000VA / 900W	2000VA / 1800W	3000VA / 2700W	3000VA / 2700W
Backup Time (est. Max)	10min. @ 50% Load 4min @ 100% Load	10min. @ 50% Load 4min @ 100% Load	7min. @ 50% Load 2min @ 100% Load	Determined by Battery Pack
Input				
Nominal Voltage	208/220/230/240Vac			
Voltage Range *(no battery intervention)*	176~264Vac ±5% @ 100%-50% Load 110~300Vac ±5% @ 50-0% Load			
Power Factor	>0.99			
Frequency				
Frequency Range	40-70Hz (50/60Hz Auto-Sensing)			
Output				
Output Voltage	208/220/230/240Vac			
Voltage Regulation	±1%			
Power Factor	0.9			
Output Frequency	46~54Hz or 56-64Hz (Line Mode) / (50/60 ±0.1%)Hz (Battery / Frequency Converter Mode)			
Output Waveform	Pure Sinewave			
Crest Factor	3:1			
Harmonic Distortion	≤3%THDv Linear Load / ≤5%THDv Non-Linear Load			
Transfer Time	0ms (AC to Battery Mode) / 4ms (Inverter to Bypass)			
Crest Factor	Pure Sinewave			
Efficiency				
AC Mode	89%	91%	92%	92%
Battery Mode	85%	87%	88%	88%
Battery				
Quantity Installed	3	6	6	0
Capacity	9Ah / 12Vdc			
Typical Recharge Time	4 hours (to 90% of full capacity)			Determined by Battery Pack
Charging Current (Max.)	1A			Determined by Battery Pack
External Battery Support	Optional	Optional	Optional	Yes
Physical				
Dimensions	440(W) x 460(D) x 86.5(H)mm	440(W) x 460(D) x 86.5(H)mm	440(W) x 600(D) x 86.5(H)mm	440(W) x 600(D) x 86.5(H)mm
Net Weight	14kg	19.5kg	26kg	11kg
Environment				
Operating Temperature	0 ~ 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 @ 1m			
Standards				
Safety	IEC/EN 62040-1, IEC/EN 62477-1			
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)			

1. When output voltage is 208Vac, max capacity derates to 80%. 2. Specifications are subject to change without prior notice. 3. Data above are typical values for reference only, not as a basis for engineering design.
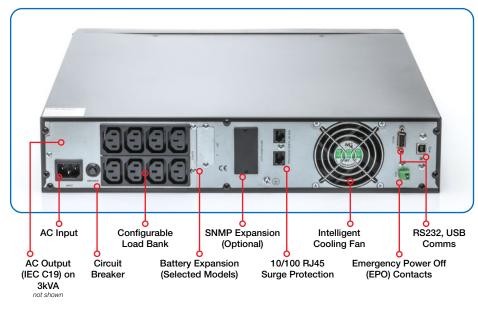
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Indicators	
LED Display	Line Mode, Battery Mode, ECO Mode, Bypass Mode, Battery Low, Overload & Fault
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature, Remaining Battery Backup Time
Alarms	
Battery Mode	Beeping every 4 seconds
Battery Low	Beeping every second
Overload	Beeping twice every second
Fault	Continuously beeping

LED Status Indicators

Available Backup Time

AC Input Voltage

Output Voltage

Inverter / Bypass Status

Remaining Battery Capacity

Output Load Scale

User Interface

AC Input

Configurable
Load Bank

SNMP Expansion
(Optional)

Intelligent
Cooling Fan

RS232, USB
Comms

AC Output
(IEC C19) on
3kVA
not shown

Circuit
Breaker

Battery Expansion
(Selected Models)

10/100 RJ45
Surge Protection

Emergency Power Off
(EPO) Contacts

Tower Mount Brackets Included

EP-RT Series 1-3kVA Online
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Included Accessories

IEC Mains Cable

- 10A C13 IEC (1kVA)
- 16A C19 IEC (2kVA/3kVA)

Rack Mounting Brackets

- 2 x Rack mounting brackets (rail kit available separately)

Tower Mounting Brackets

- 2 x Support brackets for tower mounting configuration.

Optional Accessories

Long Run Battery Tower
EP-TBPACK72

- 72Vdc output (12 x 12V/9Ah Batteries).
- Integrated charge controller.
- Compatible with 2kVA/3kVA UPS models.
- Stackable up to 4x units for exceptional backup time at any load.
- *Note: EP-RT3000L includes external expansion connector. EP-RT2000S & EP-RT3000S require optional expansion connector fitted (speak to your Sales Engineer if this is required).*

Rack Mounting Rail / Guard Kit
EP-GUIDERAIL

- 19" rack mounting rails.
- Suitable for 700-760mm rack depth.

SNMP Communications Card
EP-SNMP

- Enhanced monitoring capability.
- Ethernet, RS485, USB.