



# OL8KRTHW SMART APP ONLINE UPS SYSTEM

Safeguard mission-critical servers, applications, and network equipment with seamless, double-conversion power protection

The CyberPower Smart App Online OL8KRTHW is a 6U rack/tower UPS featuring double-conversion topology for seamless power protection, an intuitive maintenance bypass switch design, and a pre-installed RMCARD205. Ensure maximum efficiency and capacity output with a Power Factor rating (PF) of 1. The energy-saving GreenPower UPS™ ECO Mode enables up to 96% efficiency while reducing power consumption and thermal dissipation. Smart battery management charging technology increases battery life up to 50% and replenishes battery charge from 0-90% in five hours.

The OL8KRTHW enhanced LCD control panel functionality provides the ability to change the IP address, view UPS load energy consumptions, and select UPS diagnostic tests.

Variable 4-speed fans provide automatic thermal management, based on power load, to reduce noise. A tamper-proof input circuit breaker ensures power is not turned off unexpectedly during service or maintenance. The OL8KRTHW simplifies installation with a quick start guide, user-friendly lifting straps, and an enhanced hanging rack mount rail system.

The optional BP240VL3U01 Extended Battery Module expands runtime and speeds restoration of full backup power. The OL8KRTHW comes with a three-year warranty (including batteries) and a \$300,000 Connected Equipment Guarantee.



## Typical Applications

- Core Network Equipment
- Hyperconverged Infrastructure (HCI)
- Server Rooms
- Server Virtualization Infrastructures (VMware, Hyper-V, Citrix)
- Storage Systems
- VoIP Infrastructure

## Features

- 8,000VA / 8,000W
- Double Conversion Topology
- Sine wave output, zero transfer time
- Maintenance Bypass Switch
- Output: 200-240V UPS
- GreenPower UPS™ ECO Power Mode
- RM205CARD for remote monitoring
- Generator compatibility mode
- Hardwire Outlets / USB, Serial, EPO and Dry Contact Ports
- PowerPanel® Business Edition Management Software

## SPECIFICATIONS

| GENERAL            |   | INPUT CONT.             |               |
|--------------------|---|-------------------------|---------------|
| UPS Topology       | Double Conversion   | Cold Start              | Yes           |
| Energy Saving      | Yes - ECO Mode Efficiency up to 96%   | Backfeed Protection     | Yes           |
| INPUT              |   | OUTPUT                  |               |
| Nominal Voltage    | 200 V to 240 V  | VA                      | 8,000 (8 kVA) |
| Voltage Range      | 120 V to 139 V, 0% to 25% load<br>140 V to 159 V, 0% to 50% load<br>160 V to 179 V, 0% to 75% load<br>180 V to 280 V, 0% to 100% load | Watts                   | 8,000 (8 kW)  |
| Frequency Range    | 40 Hz to 70 Hz (auto-sensing)   | Output Power Factor     | 1             |
| Input Power Factor | 0.99  | Rated Power Factor      | 1             |
|                    |   | Waveform (Battery Mode) | Sine wave     |

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## SPECIFICATIONS CONT.



### OUTPUT CONT.

|                                |   |
|--------------------------------|---|
| Nominal Voltage (Battery Mode) | 200, 208, 220, 230, 240 V ±2% (configurable)  |
| Output Frequency               | 50/60 Hz ±0.25 Hz (auto-sensing/configurable)   |
| ECO Mode Bypass Voltage Range  | ±10%, ±15% (configurable)   |
| Harmonic Distortion            | <3% at linear load, <5% at non-linear load  |
| Crest Factor                   | 3:1   |
| Outlets - Total                | 1   |
| Outlets - Type                 | (1) Hardwire Terminal Block   |
| Overload Protection            | Line Mode:<br>105% to 125% load for 1 min<br>126% to 150% load for 10 s<br><br>Battery Mode:<br>105% to 130% load for 10 s<br>131% to 150% load for 2 s |
| Short Circuit Protection       | UPS Output Cut off Immediately or Input Fuse / Circuit Breaker Protection   |
| Bypass                         | Internal Bypass (Automatic and Manual), Maintenance Bypass  |
| Maintenance Bypass             | Yes   |
| Transfer Time                  | 0 ms  |

### BATTERY

|  |                      |
|--|----------------------|
| Runtime at Half Load                   | 12 min               |
| Runtime at Full Load                   | 4.7 min              |
| Battery Type                           | Sealed lead acid     |
| Battery Size                           | 12 V/9 Ah            |
| Battery Quantity                       | 20                   |
| User Replaceable                       | Yes                  |
| Replaceable Battery                    | Yes                  |
| Replacement Battery                    | (2) RB1290X10        |
| Replacement Battery Cartridge Quantity | 2                    |
| Hot Swappable                          | Yes                  |
| Typical Recharge Time                  | 5 h (0% to 90%)      |
| Smart Battery Management (SMB) Mode    | Yes                  |
| Extended Battery Module                | Optional BP240VL3U01 |

### SURGE PROTECTION & FILTERING

|  |                                    |
|--|------------------------------------|
| Surge Protection                           | 2430 Joules, IEC 61000-4-5 Level 3 |
| Phone / Network Surge Protection RJ11/RJ45 | 1-In / 1-Out (Combo)               |
| EMI/RFI Filtration                         | Yes                                |

### MANAGEMENT & COMMUNICATION

|                                    |  |
|------------------------------------|--|
| LCD Control Panel                  | Access 51 information status and configuration settings via the Information and Configuration Menus, in addition to an Event Log Menu. |
| Rotatable LCD Control Panel Option | Yes  |
| Removable LCD Control Panel Option | Yes - Requires DB26 cable (not included)   |
| HID Compliant USB Port             | Yes  |
| Serial Port                        | Yes  |
| Emergency Power Off (EPO) Port     | Yes  |
| Dry Contact Port                   | Yes  |
| Cables Included                    | USB cable, serial cable, phone cable   |
| LED Indicators                     | Power On (White) Line Mode (Green) Battery Mode (Yellow) Bypass Mode (Yellow) Fault (Red) Replace Battery (Red)                        |
| Audible Alarms                     | Battery Mode, Battery Low, Overload, UPS Fault   |
| Software                           | PowerPanel® Business Edition   |
| Expansion Slot                     | Yes - RMCARD205 pre-installed  |

### PHYSICAL

|                            |  |
|----------------------------|--|
| Form Factor                | Rack / Tower convertible (rotatable LCD) |
| Enclosure Construction     | Steel                                    |
| Color                      | Black                                    |
| Mounting Hardware Included | Yes                                      |
| Rack Mounting Hardware     | Included                                 |
| Rack Units                 | 6U                                       |
| Weight (lb)                | 229.9                                    |
| Weight (kg)                | 104.28                                   |

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## SPECIFICATIONS CONT.

### PHYSICAL CONT.

|                                 |                          |
|---------------------------------|--------------------------|
| Dimensions - (WxHxD) (in)       | 17.05 x 10.4 x 32.3 (in) |
| Dimensions - (WxHxD) (mm)       | 433 x 264 x 820 (mm)     |
| Rail Depth - Max. Mounting (in) | 36.02                    |
| Rail Depth - Max. Mounting (mm) | 915                      |
| Rail Depth - Min. Mounting (in) | 20.47                    |
| Rail Depth - Min. Mounting (mm) | 520                      |

### PHYSICAL - POWER MODULE

|                        |                  |
|------------------------|------------------|
| Dimensions (WxHxD, in) | 17.05 x 5.2 x 26 |
| Dimensions (WxHxD, mm) | 433 x 132 x 660  |
| Rack Units             | 3U               |
| Weight (lb)            | 52.8             |
| Weight (kg)            | 24               |

### PHYSICAL - BATTERY MODULE

|                        |                  |
|------------------------|------------------|
| Dimensions (WxHxD, in) | 17.05 x 5.2 x 26 |
| Dimensions (WxHxD, mm) | 433 x 132 x 660  |
| Rack Units             | 3U               |
| Weight (lb)            | 171.6            |
| Weight (kg)            | 78               |

### PHYSICAL - MAINTENANCE BYPASS MODULE

|                        |                 |
|------------------------|-----------------|
| Dimensions (WxHxD, in) | 7.8 x 5.2 x 6.3 |
| Dimensions (WxHxD, mm) | 198 x 132 x 160 |
| Rack Units             | 3U              |
| Weight (lb)            | 4.9             |
| Weight (kg)            | 2.2             |

### SHIPPING DIMENSIONS

|                        |                                |
|------------------------|--------------------------------|
| Dimensions (WxHxD, in) | 25.6 x 44.1 x 24.4 (in)        |
| Dimensions (WxHxD, mm) | 650.24 x 1120.14 x 619.76 (mm) |
| Weight (lb)            | 289.3                          |
| Weight (kg)            | 131.22                         |

### ENVIRONMENTAL

|  |                                     |
|--|-------------------------------------|
| Operating Temperature                      | 32 °F to 104 °F (0 °C to 40 °C)     |
| Operating Relative Humidity                | 0% to 90% non-condensing            |
| Operating Elevation                        | 0 ft to 10,000 ft (0 to 3,000 m)    |
| Storage Temperature                        | -4 °F to 113 °F (-20 °C to 45 °C)   |
| Storage Relative Humidity                  | 0% to 95% non-condensing            |
| Storage Elevation                          | 0 ft to 50,000 ft (0 m to 15,000 m) |
| ECO Mode Thermal Dissipation (100% Load)   | 932 BUT/hr                          |
| UPS Online Thermal Dissipation (100% load) | 2536 BTU/h                          |
| Audible noise at 1m from surface of unit   | 38 dBA to 65 dBA (0% to 100% load)  |

### CERTIFICATIONS

|               |   |
|---------------|---|
| Safety        | CSA C22.2 NO.107.3-05<br>FCC Part 15 Class A<br>UL 1778 5th Ed. |
| Environmental | RoHS Compliant  |

### WARRANTY

|                               |                       |
|-------------------------------|-----------------------|
| Product Warranty              | 3 Years Limited       |
| Extended 2-Year Warranty      | Optional WEXT5YR-U20B |
| Connected Equipment Guarantee | Lifetime              |
| CEG Amount                    | \$300,000             |