

Axcell WR Series

Rack / Tower Convertible

1kVA - 3kVA

TRUE ONLINE RT UPS
- Single Phase

Features

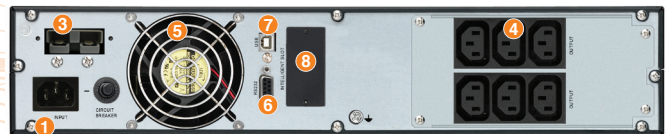
- High Frequency On Line Double Conversion Technology
- DSP (Digital Signal Processors) Control Technology
- Active Power Factor Correction (APFC), Input Power Factor up to 0.99
- Output Power Factor 0.9
- 2U Rackmount Form Factor Compatible with Standard 19" Racks Installation
- Wide Input Voltage Range (120V ~ 300VAC) and Frequency range (40~70Hz) Auto Sensing Frequency
- 50/60Hz Frequency Conversion
- Cold Start
- Rear Ventilation Design and Variable Speed Fan
- Effective Software and Hardware Protection
- Quick and Stable Charging, 90% Capacity Restored in 4 h
- Linear Derating in Low Voltage Input Reducing Battery Discharging Times
- Settable Delayed Start When Power is Restored
- Hot-swappable Battery
- Advanced Battery Management (ABM)
- Multiple Functions Settable via LCD: Output Voltage, EOD, Auto start, Bypass Mode, ECO Mode and Frequency Conversion Mode
- Multi-platform Communications: RS232, USB / RS485 / SNMP / AS400
- Overload, Short Circuit, Spike, Surge and Lightning Protection



AX-1KWR, AX-2KWR & AX-3KWR

Axcell WR Series 1kVA-3kVA Rear Panel

- | | |
|---------------------------|------------------------------|
| 1. Overcurrent Protection | 6. RS-232 Port |
| 2. AC Input | 7. USB Port |
| 3. DC Input | 8. Intelligent Slot |
| 4. Output (6) IEC C13 | 9. Output (1) Terminal Block |
| 5. Ventilation Fan | |



AX-2KWR



AX-1KWR



AX-3KWR



AXCELL WR SERIES

Technical Specification

| MODEL | AXCELL AX-1KWR | AXCELL AX-2KWR | AXCELL AX-3KWR |
|--------------------------------------|--|----------------------------------|----------------|
| Phase | Single Phase with Ground | | |
| Capacity* | 1000VA / 900W | 2000VA / 1800W | 3000VA / 2700W |
| Form Factor | 2U Rackmount | | |
| INPUT | | | |
| Nominal Voltage | 200 / 220 / 230 / 240 VAC | | |
| Voltage Range | 120-300 VAC (Based on load at 50%) 180-300 VAC (Based on load at 100%) | | |
| Frequency Range | 40 Hz ~ 70 Hz | | |
| Power Factor | ≥0.99 @ Nominal Voltage (100% load) | | |
| Input Connections | Fixed Input Plug with BS 1363A Plug | | |
| OUTPUT | | | |
| Output Voltage | 200 / 220 / 230 / 240 VAC | | |
| AC Voltage Regulation (Battery Mode) | ± 1% | | |
| Frequency Range (Synchronized Range) | 47~53 Hz or 57~63 Hz | | |
| Frequency Range (Battery Mode) | 50 Hz or 60 Hz ± 0.5 % | | |
| Current Crest Ratio | 3:1 | | |
| Total Harmonic Distortion (THDi) | ≤ 3%THDi (Linear Load); ≤ 6%THDi (Non-linear Load) | | |
| Output Connections | (6) IEC C13 | (6) IEC C13 + (1) Terminal Block | |
| TOPOLOGY | | | |
| Transfer Time | AC Mode to DC Mode | 0 ms | |
| | Inverter to Bypass | 4 ms (Typical) | |
| Waveform (Battery Mode) | Pure Sinewave | | |
| EFFICIENCY | | | |
| AC Mode | 88% | 89% | 90% |
| Battery Mode | 83% | 87% | 88% |
| BATTERIES | | | |
| DC Voltage | 24V | 48V | 72V |
| Battery Capacity | 12V 9AH | | |
| Autonomy | 20-30 minutes or depending on the equipment loads | | |
| Maximum Charging Current | 1A | | |
| Typical Recharge Time | 4 hours to 90% capacity | | |
| Charging Voltage | 27.4 VDC ± 1% | 54.7 VDC ± 1% | 82.1 VDC ± 1% |
| SYSTEM | | | |
| LCD Display | Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode and Fault Indicators | | |
| SAFETY | | | |
| Full Protection | Overload, Short Circuit, Spike, Surge and Lightning Protection | | |
| COMMUNICATIONS / MANAGEMENT | | | |
| Power Management Software | Supports Windows® 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10, Linux and MAC | | |
| Intelligent Slot | SNMP / AS400 / Modbus Card (Optional) | | |
| STANDARDS / APPROVALS | | | |
| Compliances | CE, EN 62040-2, EN 61000-3-2, EN 61000-3-3 | | |
| IP Rating | IP 20 | | |
| ENVIRONMENT | | | |
| Operating Temperature | 0°C ~ 40°C | | |
| Relative Humidity | 20%-90% (non-condensing) | | |
| Acoustic Level at 1m | ≤ 50 dB | | |
| PHYSICAL PROPERTIES | | | |
| Dimensions (W × D × H) mm | 438 × 310 × 88 | 438 × 410 × 88 | 438 × 630 × 88 |
| Net Weight (kg) | 12.0 | 19.0 | 29.3 |
| WARRANTY & SUPPORT | | | |
| Product Warranty | 5 Years Full Warranty For Parts and Labour. 2 Years For Batteries. | | |

* Derate capacity to 70% in frequency converter mode when the output voltage is adjusted to 208VAC.

- Changes to the specification contained in this document, and to prices are reserved; so are errors and omissions. Only order confirmations and technical documentation by KOSS UPS is binding.
- T1.April 2024
- © POWER LOGIC (M) SDN BHD. All right reserved.



CERTIFIED TRUE COPY



POWER LOGIC

No. 2-10, Jalan Kenari 12B, Bandar Puchong Jaya, 47100 Puchong, Selangor Darul Ehsan. Tel: (603) 8070 5899 E-mail: enquiry@kossups.com.my

TRUE ONLINE RT UPS
- Single Phase