

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
- Wide Input Voltage Range (110V ~ 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 3 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, Autostart, Bypass Mode, ECO Mode and Frequency Conversion Mode
- Multi-platform Communications: RS232 (Standard), USB / RS485 / SNMP / Dry Contacts (optional)



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

Available Options

- Optional USB, RS485 Card, AS400 Dry Contacts, SNMP Card, SMS Alarms, EPO Function, MBS (External Maintenance Bypass Switch)

Axcell WR Series 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 Terminal Block |
| 5. Ventilation Fan | |



AX-1KWR



AX-2KWR



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
INPUT				
Nominal Voltage		208 / 220 / 230 / 240 VAC		
Voltage Range		120-300 VAC (Based on load at 50%)		
Frequency Range		40 Hz ~ 70 Hz		
Power Factor		≥ 0.99 @ Nominal Voltage (100% load)		
Input Connections				
OUTPUT				
Output Voltage		208 / 220 / 230 / 240 VAC		
AC Voltage Regulation (Batt. Mode)		± 1%		
Frequency Range (Synchronized Range)		47~53 Hz or 57~63 Hz		
Frequency Range (Batt. Mode)		50 Hz or 60 Hz ± 0.5 %		
Current Crest Ratio		3:1		
Harmonic Distortion		≤ 3%THD (Linear Load) ; ≤ 6%THD (Non-linear Load)		
Output Connections				
TOPOLOGY				
Transfer Time	AC Mode to Batt.Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		88%	89%	90%
Battery Mode		83%	87%	88%
BATTERIES				
Battery Capacity		12V 9AH		
DC Voltage		24 V	48 V	72 V
Typical Recharge Time		4 hours to 90% capacity		
Max. Charging Current		1 A		
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		
Audible Alarm	Battery Mode	Sounding every 4 seconds		
	Low Battery	Sounding every seconds		
	Overload	Sounding twice every seconds		
	Fault	Continuously sounding		
COMMUNICATIONS / MANAGEMENT				
Smart RS-232 / USB		Supports Windows® 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10, Linux and MAC		
Intelligent Slot		SNMP / AS400 Card		
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	19	29.3

* Derate capacity to 70% in CUCF 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.

• Ver1.Sept 2023

© POWER LOGIC (M) SDN BHD. All right reserved.



TRUE ONLINE RT UPS
- Single Phase