

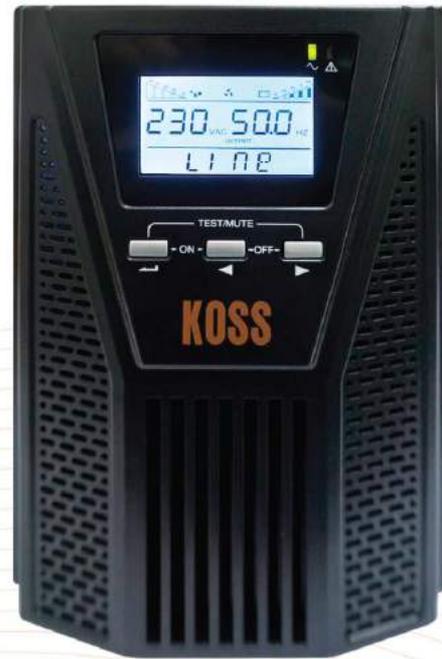
AXCELL SERIES

1kVA - 3kVA

TRUE ONLINE 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 (110 VAC ~ 300 VAC) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency, 50 / 60Hz frequency conversion
- Cold start
- Front ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 4 h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, and EPO function



Axcell Rear Panel

- | | |
|----------------------|-----------------------|
| 1. AC input socket | 5. RS-232 port |
| 2. Output sockets | 6. USB port |
| 3. Intelligent slot | 7. EPO port |
| 4. Battery connector | (Emergency Power Off) |



Axcell AX - 1K

Axcell AX - 3K



AXCELL SERIES

Technical Specification

| MODEL | Axcell AX - 1K | Axcell AX - 2K | Axcell AX - 3K |
|------------------------------------|--|--|--|
| Capacity | 1000VA / 900W | 2000VA / 1800W | 3000VA / 2700W |
| INPUT | | | |
| Rated Voltage | 220 / 230 / 240 VAC | | |
| Voltage Range | 110 ~ 176 VAC (linear derating between 50% and 100% load); 176 ~ 280 VAC (no derating); 280 ~ 300 VAC (derating 50%) | | |
| Frequency | 40Hz - 70Hz | | |
| Power Factor | ≥ 0.99 | | |
| By-pass Voltage Range | -25% ~ +15% settable | | |
| Total Harmonic Distortion | ≤ 6% | | |
| Input Connections | IEC 60320-C13 to BS1363A | | IEC 60320-C19 to BS1363A |
| OUTPUT | | | |
| Voltage | 220 / 230 / 240 VAC (settable via LCD) | | |
| Voltage Regulation | +/- 1% | | |
| Frequency | 45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode) | | |
| Waveform | Sinusoidal | | |
| Power Factor | 0.9 | | |
| Total Harmonic Distortion (THDv) | ≤ 2% (linear load), ≤ 5% (non-linear load) | | |
| Crest Factor | 3:1 | | |
| Overload | 105% ~ 125% for 1 min, 125% ~ 150% for 30s, > 150% for 300ms | | |
| Output Connections | (2) BS 1363A | | (3) BS 1363A + Terminal Block* |
| BATTERIES | | | |
| DC Voltage | 24V | 48V | 72V |
| Battery Capacity | 9AH | 9AH | 9AH |
| Charging Current (Max) | 1A | 1A | 1A |
| Recharge Time | Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery | | |
| SYSTEM | | | |
| Efficiency | ≥ 90% (Mains mode) ≥ 85% (Battery mode) ≥ 95% (ECO mode) | ≥ 91% (Mains mode) ≥ 86% (Battery mode) ≥ 96% (ECO mode) | ≥ 92% (Mains mode) ≥ 87% (Battery mode) ≥ 97% (ECO mode) |
| Transfer Time | Main mode to battery mode: 0ms Inverter mode to bypass mode: 4ms (typical) | | |
| Display | LCD + LED | | |
| COMMUNICATIONS / MANAGEMENT | | | |
| Interface | USB, RS232, Intelligent Slot | | |
| Optional Cards | Nano Relay, Nano SNMP, Nano Modbus | | |
| Software | Local View - UPSmart ; Web Browser - iStar | | |
| STANDARDS / APPROVALS | | | |
| Safety / EMC | EN 62040-1, EN62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3 | | |
| Compliances | CE | | |
| Protections | Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection | | |
| IP Rating | IP 20 | | |
| ENVIRONMENT | | | |
| Operating Temperature | 0°C ~ 40°C | | |
| Storage Temperature | -25 ~ 55°C (without batteries) | | |
| Relative Humidity | 0 ~ 95% (non-condensing) | | |
| Altitude | ≤ 1000m, derating 1% for each additional 100m | | |
| Acoustic Level at 1m | ≤ 50 dB | | |
| PHYSICAL PROPERTIES | | | |
| Dimensions (W x D x H) mm | 144 x 312 x 216 | 144 x 417 x 216 | 191 x 419 x 335 |
| Packaged Dimension (W x D x H) mm | 230 x 402 x 315 | 230 x 506 x 315 | 277 x 500 x 435 |
| Net Weight (kg) | 11 | 16.4 | 24.3 |
| Gross Weight (kg) | 11.3 | 17.8 | 25.9 |

* 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. August 2021

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TRUE ONLINE UPS
- Single Phase



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