

AXCELL SERIES

1 kVA - 3kVA

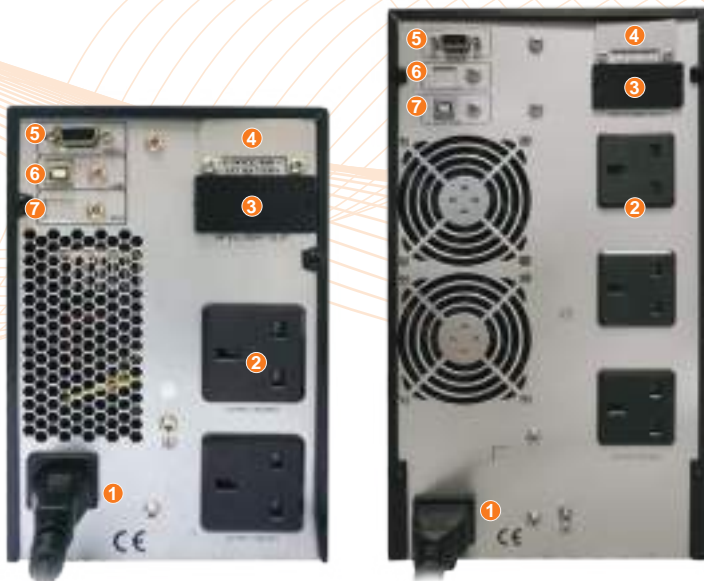
TRUE ONLINE UPS
- Single Phase

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



TRUE ONLINE UPS
- Single Phase



POWER LOGIC

No. 2-10, Jalan Kenari 12B, Bandar Puchong Jaya, 47100 Puchong, Selangor Darul Ehsan. Tel: (603) 8070 5899 Fax: (603) 8070 2799 E-mail: enquiry@kossups.com.my