Syskern Ed 1.0

KUPSXKXXXXX from 1 KW to 3 KW

Online UPS 1KVA~3KVA

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- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99.
- Output power factor 0.9/1.0
- Wide input voltage range (50V ~ 150Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h (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
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function; MBS (External maintenance bypass switch)

THE PURPOSE

The UKN UPS Online series offers a reliable and efficient power protection solution for critical systems in IT networks, telecommunications, and industrial applications. Designed for continuous operation, these UPS units ensure maximum uptime and stable power delivery to sensitive equipment.

1 kVA Model – Compact Efficiency for Essential Applications
The 1 kVA model provides stable and clean power for small to medium IT setups, workstations, network devices, and control systems. Its true double-conversion online topology guarantees zero transfer time, maintaining full protection against power surges, voltage fluctuations, and frequency variations. The compact design reduces weight and enhances energy efficiency, making it ideal for office and edge network environments.

3 kVA Model – Robust Performance for High-Demand Environments
The 3 kVA version extends the same reliable technology to support higher load capacities such as servers, network racks, and industrial control systems. With high power factor correction (up to 0.9), wide input voltage range, and advanced DSP control, it delivers superior performance and optimized battery management for extended runtime and reduced maintenance costs.

The UKN UPS combines high efficiency, compact design, and advanced protection to ensure business continuity in modern digital infrastructures — from small office setups to enterprise data environments.

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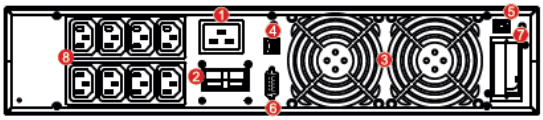
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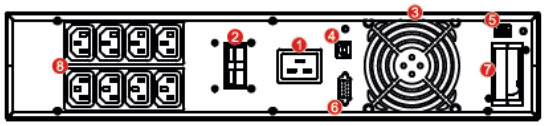
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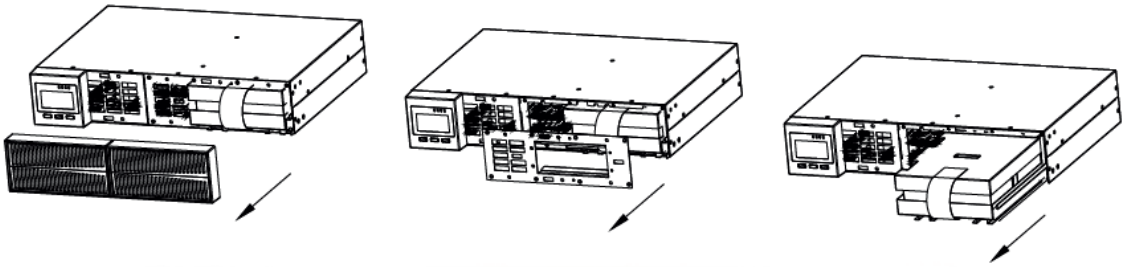
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REAR PANEL









Easy for maintenance, hot-swappable battery

1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets

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SPECIFICATIONS

Model	KUPS1K90036		KUPS2K180072		KUPS3K270096							
Capacity	1kVA / 1kW				2kVA / 2kW				3kVA / 3kW			
INPUT												
Rated voltage	208 / 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	40 ~ 70 Hz (auto-sensing)											
Power factor	≥ 0.99											
Bypass voltage range	-25% ~ +15% (settable)											
Total harmonic distortion	≤ 6%											
OUTPUT												
Voltage	208 / 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 / 1.0											
Total harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)											
Crest factor	3:1											
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms											
BATTERIES												
DC voltage	24V (S)	24V (H)	36V (S)	36V (H)	48V (S)	48V (H)	72V (S)	72V (H)	72V (S)	72V (H)	96V (S)	96V (H)
Inbuilt battery	2×9Ah	/	3×7Ah	/	4×9 Ah	/	6×7 Ah	/	6×9 Ah	/	8×7 Ah	/
Charging current (max.)	Standard model:1A, Long time model: 6A											
Recharger time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery											
SYSTEM												
Efficiency	≥ 90% (Mains mode)				≥ 91% (Mains mode)				≥ 92% (Mains mode)			
	≥ 85% (Battery mode)				≥ 86% (Battery mode)				≥ 87% (Battery mode)			
	≥ 95% (ECO mode)				≥ 96% (ECO mode)				≥ 97% (ECO mode)			
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)											
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection											
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)											
Display	LCD + LED											
Standards	EN 62040-1, EN 62040-2, 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 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1											
OTHERS												
Operating temperature	0℃ ~ 40℃											
Storage temperature	-25℃ ~ 55 ℃ (without batteries)											
Relative humidity	0~95% (non-condensing)											
Altitude	≤ 1000 m, derating 1% for each additional 100 m											
IP rating	IP 20											
Noise level at 1m	≤ 50 dB											
Dimensions (W × D × H) (mm)	440 ×338 ×88	440 ×468 ×88	440 ×430 ×88	440 ×468 ×88	440 ×430 ×88	440 ×468 ×88	440 ×560 ×88	440 ×468 ×88	440 ×560 ×88	440×468×88(UPS) 440x468x88(BAT)		440 ×468 ×88
Packaged dimensions (W×D×H) (mm)	545 ×428 ×194	545 ×592 ×198	545 ×560 ×201	545 ×592 ×201	545 ×560 ×201	545 ×782 ×201	545 ×690 ×201	545 ×592 ×201	545 ×690 ×201	545 ×592 ×198	592x545 x198 (UPS) 597x545 x198 (BAT)	545 ×592 ×201
Net weight(kg)	10.6	7.6	15.5	7.6	18.7	9.7	25.6	9.7	26.8	10	9.45(UPS) 27.2(BAT)	10.1
Gross weight(kg)	11.3	11	18.6	11.1	21.8	14	25.8	13.2	29.7	13.5	12.97(UPS) 30.2(BAT)	13.6

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- S means standard model, H means long time model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

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PURCHASE INFO

Item	Power	Capacity	Designation	Packaging
KUPS1K90036	900W	1KVA	Online UPS 900W 1KVA	1 Pc
KUPS2K180072	1800W	2KVA	Online UPS 1800W 2KVA	1 Pc
KUPS3K270096	2700W	3KVA	Online UPS 2700W 3KVA	1 Pc

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