Syskern Ed 1.0

KUPSXKXXXXX

from 6 KW to 10 KW

Online UPS 6KVA~10KVA

Unikkern



UNIK

- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0.
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 - 288 Vac) and frequency range (40 - 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input/ 60 Hz output or 60 Hz input/ 50 Hz output
- Hot-swappable battery
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging limes, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge contrai, charger dormancy contrai, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start lime when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending ils service life
- Equipped with self-aging function
- Compact internai layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB,RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event logs for check

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

This confidential Syskern datasheet cannot be altered or reproduced without written permission. Its specifications are subject to change without notice.

Cette fiche technique confidentielle de Syskern ne peut être modifiée ou reproduite sans permission écrite. Ses spécifications peuvent changer sans préavis

Syskern Ed 1.0

KUPSXKXXXXX

from 6 KW to 10 KW

Online UPS 6KVA~10KVA

Unikkern

THE PURPOSE

The UKN UPS Online series delivers high-efficiency, true double-conversion power protection designed to meet the demanding requirements of medium to large-scale IT, industrial, and telecommunications environments. Engineered with advanced technology, it ensures reliable, clean, and continuous power while minimizing energy loss and operational costs.

6 kVA Model – Performance and Reliability for Critical Systems

The 6 kVA UPS provides superior power conditioning for network servers, medical equipment, control panels, and communication systems. Its true online double-conversion topology guarantees full isolation from power disturbances such as surges, harmonics, or voltage fluctuations. The DSP-controlled system ensures high stability and rapid response, maintaining consistent performance under variable load conditions. Compact yet powerful, this model is ideal for medium-sized infrastructures requiring continuous uptime.

10 kVA Model – Enterprise-Class Protection and Scalability

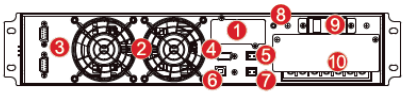
The 10 kVA model is designed for data centers, industrial plants, and mission-critical operations where uninterrupted power is essential. Offering a high input power factor (up to 0.99) and efficiency exceeding 94%, it significantly reduces total energy consumption and heat output. Its modular design allows flexible scalability, optimized cooling, and simplified maintenance. The wide input voltage tolerance and advanced battery management system ensure long-term reliability and maximum operational continuity.

The UKN kVA and 10 kVA UPS Systems combine efficiency, performance, and reliability to ensure continuous power availability in critical infrastructure. With their compact design, advanced electronics, and intelligent control, they deliver a future-ready power protection solution for modern enterprises and industrial applications.

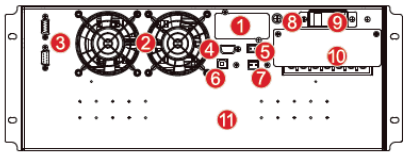
REAR PANEL



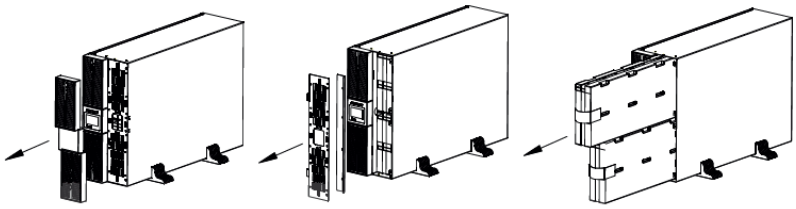
Display panel can be rotated



6/10KVA(H)



6/10KVA(S)



Easy for maintenance, hot-swappable battery

1. SNMP (optonal)
2. Fans
3. Parallel (optional)
4. RS232
5. EPO
6. USB (optional)
7. Temperature Compensation (optional)
8. GND
9. Bypass Breaker
10. Terminal and Cover
11. Battery Pack

Unikkern

www.unikkern.com

This confidential Syskern datasheet cannot be altered or reproduced without written permission. Its specifications are subject to change without notice.

Cette fiche technique confidentielle de Syskern ne peut être modifiée ou reproduite sans permission écrite. Ses spécifications peuvent changer sans préavis

KUPSXKXXXXX

from 6 KW to 10 KW

Online UPS 6KVA~10KVA

Unikkern

SPECIFICATIONS

Model	KUPS6K600192	KUPS10K10K192
Capacity	6 kVA / 6 kW	10 kVA / 10 kW
INPUT		
Input wiring	Single-phase three-wire (1Φ + N + PE)	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)	
Rated frequency	50 / 60 Hz (auto-sensing)	
Frequency range	40 ~ 70 Hz	
Power factor	≥ 0.99	
Bypass voltage range	- 40% ~ +15% (settable)	
Total harmonic distortion (THDi)	≤ 5%	
OUTPUT		
Output wiring	Single-phase (L-N)	
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1	
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest factor	3:1	
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min,126% ~ 150% for 30 s	
BATTERIES		
DC voltage	192 Vdc (192~240 Vdc settable)	
Number of battery	16 pcs (16 ~ 20 settable)	
Inbuilt battery (standard model)	12 V / 7 Ah × 16	12 V / 9 Ah × 16
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable, 12 A (optional)	
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
SYSTEM		
Efficiency	≥ 94% at 100% load, max. 94.5% at 60% load, ≥ 98% in ECO mode	
Transfer time	0 ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. number of parallel connections	4	
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD + LED	
OTHERS		
Operating temperature	0℃ ~ 40℃	
Storage temperature	-25℃ ~ 55℃ (without battery)	
Relative humidity	0 ~ 95% (non-condensing)	
Altitude	≤ 1000 m, derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1 m	≤ 55 dB	≤ 58 dB
Dimensions (W × D × H) (mm)	440 × 660 × 176 (S) 440 × 580 × 88 (H)	
Packaged dimensions (W × D × H) (mm)	554 x 792 x 418 (S) 514 x 696 x 168 (H)	
Net weight (kg)	58 (S), 12 (H)	63 (S), 14 (H)
Gross weight (kg)	68 (S), 14 (H)	73 (S), 16 (H)

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

This confidential Syskern datasheet cannot be altered or reproduced without written permission. Its specifications are subject to change without notice.

Cette fiche technique confidentielle de Syskern ne peut être modifiée ou reproduite sans permission écrite. Ses spécifications peuvent changer sans préavis

KUPSXKXXXXX

from 6 KW to 10 KW

Online UPS 6KVA~10KVA

Unikkern

PURCHASE INFO

Item	Power	Capacity	Designation	Packaging
KUPS6K600192	6KW	6KVA	Online UPS 6KVA	1 Pc
KUPS10K10K192	10KW	10KVA	Online UPS 10KVA	1 Pc

This confidential Syskern datasheet cannot be altered or reproduced without written permission. Its specifications are subject to change without notice.

Cette fiche technique confidentielle de Syskern ne peut être modifiée ou reproduite sans permission écrite. Ses spécifications peuvent changer sans préavis