

Reliable Protection for Mission-Critical Applications

PS1K/PS2K/PS3K
Single Phase
1 - 3kVA, 120VAC



FEATURES

- Online double-conversion topology
- DSP (Digital signal processors) control technology
- Active Power Factor Corrector (APFC), input P.F. up to 0.99
- Wide input voltage range (50 ~ 150Vac) and frequency range (40 ~ 70Hz)
- Smart fans, lower noise and longer life
- Advanced battery management (ABM)
- Multiple functions settable via LCD and LED status indicators
- Multi-platform communication: RS232, USB, intelligent slot
- Intelligent slot for UPS monitoring: SNMP, dry contact, and Modbus
- Effective software and hardware protection
- External battery bank port included
- Compatible with Carbon and Lithium LiFePO4 Batteries

Complete protection



Blackouts



Spikes



Harmonics



Transient



Frequency variation



Noise



Sags/swells



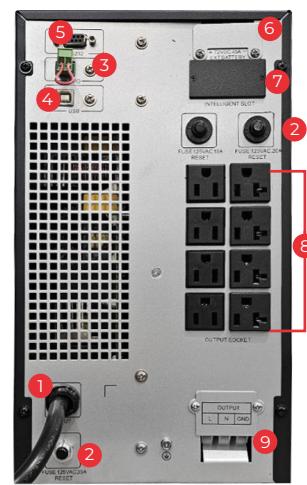
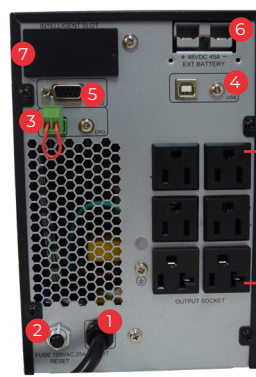
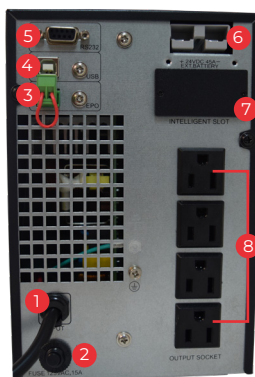
Surges



Under-voltage

1, 2 & 3 kVA Rear Panel

- 1 AC input (L, N, GND)
- 2 Overcurrent protection
- 3 Emergency Power Off switch (EPO)
- 4 USB communication port
- 5 RS232 communication port
- 6 External battery bank port
- 7 Intelligent slot (SNMP, Modbus, Wifi, etc.)
- 8 Output sockets
- 9 Output terminal block (L, N + GND)



Applications

Protection for critical equipment in financial centers, government, education, hospitals, computing, PLC, security systems, telecom, etc.

KENJITSU UPS, POWERSAN SERIES

MODEL	PS1K	PS2K	PS3K
Capacity	1 kVA / 900 W	2 kVA / 1800 W	3 kVA / 2700 W
Topology	Online Double conversion		
INPUT			
Rated voltage	120 Vac (L, N + GND)		
Voltage range	(50 ~150) Vac		
Frequency	50/60 Hz (auto-sensing)		
Frequency range	(40 ~ 70) Hz		
Power factor	≥0.99		
Total Harmonic Distortion (THDi)	<6%		
Bypass range	(90 ~ 140) ±5 Vac (settable)		
Input connection	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P
OUTPUT			
Rated voltage	120 Vac default (L, N + GND) 100/110/115/120/127 Vac		
Voltage regulation	±1		
Frequency (LINE mode)	Synchronized with utility in mains mode		
Frequency (battery mode)	50/60 Hz ±0.1 Hz		
Power factor	0.9		
Waveform	Pure sinewave		
Crest factor	3:1		
Total Harmonic Distortion (THDv)	<2% (linear load); <5% (non-linear load)		
Overload	108 ~ 127% for 1 min; 127 ~ 150% for 30 sec; >150% for 100 ms		
Output connection	NEMA 5-15R (4)	NEMA 5-15R (4) NEMA 5-20R (2)	NEMA 5-15R (4) NEMA 5-20R (4) Hardwire terminal (L, N + GND)
EFFICIENCY			
LINE Mode	≥90%		
ECO Mode	≥96%		
BATTERY			
Battery type	Lead Acid Batteries (VRLA), Maintenance Free Compatible with Carbon and Lithium LiFePO4 Batteries		
DC Voltage	24VDC;	48VDC;	72VDC
Inbuilt battery	9Ah12V (2)	9Ah12V (4)	9Ah12V (6)
Backup time @ 100% load	4 min	4 min	4 min
Backup time @ 50% load	11 min	11 min	11 min
Charging current	1 A (90% capacity restores in 3 hours)		
External battery bank port	ANEN connector		
ENVIRONMENT			
Noise level	≤ 50dB at 3.2 ft (1 m)		
Humidity	0 ~ 95% (non-condensing)		
Operating temperature	(32 ~ 104)°F; (0 ~ 40) °C		
IP Level	IP20 (NEMA 1)		
PHYSICAL			
Dimensions (W x D x H)	(5.66 x 12.40 x 8.30) in (144 x 315 x 211) mm	(5.66 x 17.71 x 8.30) in (144 x 450 x 211) mm	(7.51 x 17.20 x 13.18) in (191 x 437 x 335) mm
Weight (with batteries)	22.04 lb (10 kg)	38.80 lb (17.6 kg)	57.32 lb (26 kg)
MANAGEMENT & CONTROL			
Communication port	RS232, RS485, USB, EPO Intelligent slot (SNMP v1 v2 v3, dry contacts, Modbus)		
CERTIFICATION			
Safety Certification	CE, NOM, IEC61000-4-2, GB9254-1998/IEC 62040-2		



*** Product specifications are subject to change without notice.
 **≤1000m, above 1000m, derating 1% for each rising 100m
 *USA-V2510-REV1.01

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