

Reliable Protection for Mission-Critical Applications

Single-phase
15 ~ 20 kVA/kW 110/220V
(built-in transformer)

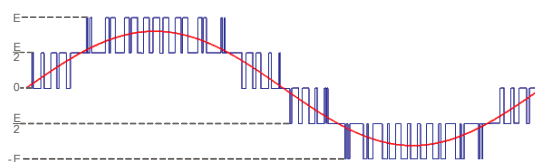


FEATURES

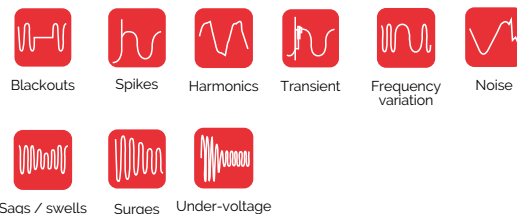
- Topology IGBT 3-level
- Output power factor 1.0
- Advanced Digital Signal Processing (DSP)
- Active Power Factor Corrector (APFC), input P.F. up to 0.99
- Output with Isolation Transformer
- Wide input range (110 ~ 295V)
- Frequency Converter 60 / 50Hz or 50 / 60Hz
- Flexible battery configuration (16 - 20 batteries)
- Configurable battery charger 1 ~ 5 Amp
- Charging voltage and current configured by demands
- Intelligent fan speed, reducing noise and extending service life
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts
- Power-on self test
- External Lithium Battery bank

3-level topology

Powersan series UPS include a 3-level IGBT topology, increase their operating efficiency.

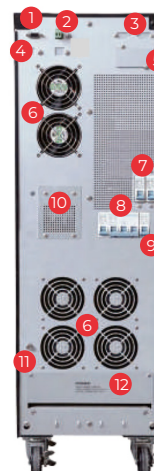


Complete protection



Rear panel 10 ~ 15 kVA

- 1 RS232 port
- 2 Emergency Power Off switch (EPO)
- 3 Parallel ports
- 4 USB port
- 5 Intelligent slot (SNMP, Modbus, AS400)
- 6 Fans
- 7 Battery breaker
- 8 Bypass breaker
- 9 Input breaker
- 10 Maintenance Bypass switch
- 11 Ground terminal
- 12 Input/Output/battery terminal block



Applications

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

KENJITSU UPS, POWERSAN SERIES

MODEL	PS15K	PS20K
Ratings	15 kVA/ 15 kW	20 kVA/ 20 kW
Topology	True double-conversion online	
INPUT		
Nominal input voltage	(L1, L2 + G) 208/220/230/240 VAC	
Voltage range	(110 ~ 295) VAC	
Frequency	(40 - 70) Hz; 50/60 Hz (auto-sensing)	
Power factor	≥ 0.99 typical	
Total harmonic distortion (THDi)	≤ 3%	
Input connection type	Hardwire terminal block (L1, L2 + G)	
OUTPUT		
Output voltage (180° phase displacement)	*208/220/230/240 VAC @ L1-L2 110/115/120 VAC @ L1-N1, L2-N2	
Voltage regulation	±1%	
Frequency (synchronized with Input)	(55 ~ 65)Hz @ 60 Hz	
Frequency (Battery mode)	50/60 Hz ±0.1 Hz	
Power Factor	1.0	
Waveform	Pure sine wave	
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)	
Overload capacity	105% ~110% @ 10min, 110% ~ 125% @ 1min, 126% ~ 150% @ 30 sec	
Output type connection	Isolation transformer output; Hardwire terminal block (L1, N1, L2, N2, +G)	
BATTERY		
Battery type	Lead Acid Batteries (VRLA) default, and Lithium LiFePo4	
DC Voltage Bus	240 VDC default; (192, 216, 240 VDC settable by Display)	
Number of Battery	(12V/9Ah) 20 default; (16 - 20 pcs settable)	
Backup time 50% load internal battery	14 min (9Ah12V x 40)	9 min (9Ah12V x 40)
Backup time 100% load internal battery	5.5 min (9Ah12V x 40)	4 min (9Ah12V x 40)
Charger current	2A (Default) 1 ~ 5A settable by Display	
External battery Bank connection	Hardwire terminals; Positive & Negative	
UPS SYSTEM		
Efficiency	90% typical	
Efficiency ECO mode	93%	
Max parallel UPS	4 units max.	
Display & LED indicators	LCD + LEDs Indicators integrated + Audible alarms	
Frequency converter	Integrated	
ENVIRONMENT		
Audible noise	≤ 58dBA at 3.2 ft (1 m)	
Altitude	≤ 3280 ft (1000m), derating 1% for each additional 328 ft (100m)	
Relative humidity	0 - 95% (non-condensing)	
Operating temperature	(32 ~ 104)°F ; (0 ~ 40)°C	
IP Level	IP20	
PHISICAL		
Dimensions (Width x Depth x Height)	(13.7 x 29.3 x 46.5) in (350 x 745 x 1183) mm	
Weight (with internal batteries)	599.6 lb (272 kg)	626.1 lb (284 kg)
MANAGEMENT		
Communication ports	RS232, USB, EPO, parallel ports, Intelligent slot (SNMP, dry contacts, Modbus)	
SNMP card	Optional accessory	
CONFORMITY & STANDARDS		
Safety Certification	IEC, CE, NOM	



*Capacity will be derated to 60% in CVCF mode and derated 90% when the output voltage is adjusted to 208VAC or UPS works in parallel

** <1000m, load derated 1% per 100m from 1000 ~ 3000.

*** All specifications are subject to change without notice
USA-V2509-REV2.00