

powerB(⚡)X

PB33 G4 20kVA ~ 100kVA
208 V (3:3) PF 1.0



Features

- Advanced dual-core DSP control technology and 3-level technology
- Output power factor 1.0
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 94%, energy saving rate is doubled
- Working efficiency up to 98% in ECO mode
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode
- Compact internal layout, small footprint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Linear downgrading in low voltage input reducing battery discharging times
- Flexible battery configuration setting, selectable battery numbers: 16 ~ 24 pcs
- Digitally controlled charger (Max. 48 A)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Settable delayed start time when mains power is restored
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Options and accessories: RS232, USB, RS485, RJ45, parallel, dry contacts, EPO and battery temperature compensation interfaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMD detector and SMS alarms

Specifications

MODEL	PB33-20	PB33-30	PB33-40	PB33-60	PB33-80	PB33-100
Capacity	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW	80 kVA / 80 kW	100 kVA / 100 kW
INPUT						
Input wiring	Three-phase five-wire (3Φ + N + PE)					
Rated voltage	480 V					
Voltage range	166 ~ 277 Vac (no downgrading), 114 ~ 166 Vac (linear downgrading between 40% ~ 100% load)					
Rated frequency	50 / 60 Hz (auto-sensing)					
Frequency range	40 ~ 70 Hz					
Power factor	≥ 0.99					
Bypass voltage range	-40% ~ +25% (settable)					
Total harmonic distortion (THDi)	≤3%					
OUTPUT						
Output wiring	Three-phase five-wire (3Φ + N + PE)					
Rated voltage	480 V					
Voltage regulation	±1%					
Frequency	Synchronized with utility in mains mode,50 / 60 Hz ±0.1% in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5 % (non-linear load)					
Crest factor	3:1					
Overload	105% ~110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, >150% for 0.2 s					
BATTERIES						
DC voltage	± 120 Vdc (± 96 ~ ± 144 Vdc settable)					
Number of battery	20 pcs (16 ~ 24 pcs settable); 20 kVA built-in battery: 40 pcs 9 Ah/12 V, 60 pcs 9 Ah/12 V optional; 30 kVA built-in battery: 60 pcs 9 Ah/12 V;					
Charging current (max.)	12 A	24 A		36 A		48 A
Recharge time	Depend on the capacity of battery					
SYSTEM						
Efficiency	Max. 94% in online mode, 98% in ECO mode					
Transfer time	0 ms					
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure					
Max. number of parallel connections	4					
Communications	Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card					
Display	5 inches colorful LCD touch screen					
OTHERS						
Operating temperature	0°C ~ 40°C					
Storage temperature	-25°C ~ 55°C (without battery)					
Relative humidity	0% ~ 95% (non-condensing)					
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m					
IP rating	IP 20					
Noise level at 1 m	≤ 65 dB					
Dimensions (W × D × H) (mm)	360 x 850 x 885	360 x 850 x 1035	360 x 850 x 1200	440 x 850 x 1200	600 x 850 x 1200	
Packaged dimensions (W × D × H) (mm)	450 x 940 x 1055	450 x 940 x 1205	450 x 940 x 1370	530 x 940 x 1370	700 x 950 x 1370	
Net weight (kg)	95 (w/o BAT) 195 (w BAT)	130 (w/o BAT) 260 (w BAT)	156	198	250	300
Gross weight (kg)	110 (w/o BAT) 210 (w BAT)	145 (w/o BAT) 275 (w BAT)	172	220	275	325

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

