

Online UPS Dx990 G4

Dx990-40k-200k (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 96%, energy saving rate is doubled
- Working efficiency up to 99% 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: 30 ~ 44 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 output 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	Dx9940		Dx9960	Dx9980	Dx99100	Dx99120	Dx99160	Dx99200
Capacity	40 kVA/40 kW		60 kVA/60 kW	80 kVA/80 kW	100 kVA/100 kW	120 kVA/120 kW	160 kVA/160 kW	200 kVA/200 kW
INPUT								
Input wiring	Three-phase five-wire (3Φ + N + PE)							
Rated voltage	380 / 400 / 415 Vac							
Voltage range	304 ~ 485 Vac (no downgrading), 138 ~ 304 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	-60% ~ +20% (settable)							
Total harmonic distortion (THDi)	≤3%							
OUTPUT								
Output wiring	Three-phase five-wire (3Φ + N + PE)							
Rated voltage	380 / 400 / 415 Vac							
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)	≤ 1% (linear load); ≤ 4% (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	± 192 Vdc (± 180 ~ ± 264 Vdc settable) 40 kVA built-in battery: ± 240 Vdc (80 pcs 9 Ah/12 V)							
Number of battery	32 pcs (30 ~ 44 pcs settable)							
Charging current (max.)	12 A	24 A				36 A		48A
Recharge time	Depend on the capacity of battery							
SYSTEM								
Efficiency	Max. 96% in online mode, 99% 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℃~40℃							
Storage temperature	-25℃~55℃ (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 × 850 × 885	360 × 850 × 950	360 × 850 × 1200	440 × 850 × 1200			600 × 850 × 1200	
Packaged dimensions (W × D × H) (mm)	450 × 940 × 1055	450 × 940 × 1120	450 × 940 × 1370	530 × 940 × 1370			700 × 950 × 1370	
Net weight (kg)	95, 295 (built-in BAT)	130	156	158	198	250	300	
Gross weight (kg)	110, 310 (built-in BAT)	145	172	180	220	275	325	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- Derate capacity to 90% when the number of batteries is set to 30 pcs.
- Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

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