

Online UPS Dx890

Dx890-80k-500k (3:3)

PF 0.9



Dx890 series UPS 80 ~ 500 kVA provide maximum protection and power quality for mission critical loads, including data centers, Industrial Processes, telecommunications, security and electro-medical systems. It is on-line double conversion UPS with IGBT based 3-level PWM rectifier technology, featured with high input power factor (> 0.99), low THDi, high efficiency and built-in output isolation transformer.

Features

1. Online double-conversion with DSP control
2. Latest IGBT rectifier technology, high input power factor (> 0.99) and low THDi ($\leq 3\%$)
3. High efficiency even at light loads
4. Strong mixed load capacity and high overload capacity
5. Compact and small footprint
6. Unique ventilation design
7. Batteries are directly connected directly to the bus, improving the impact resistance of UPS output
8. Output isolation transformer using DZnO winding makes strong capability with unbalanced loads
9. Input and Output are completely isolated for great security
10. Simulated modular design makes maintenance easy and quick
11. High MTBF ($> 200,00$ h)
12. Low MTTR (< 0.5 h)
13. Front accessible maintenance and installation against wall allowed
14. Bottom and sides cable entry compatible
15. Generator compatible
16. Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
17. Optional N+X redundancy parallel upto 6 units

Specifications

MODEL	Dx8980	Dx89100	Dx89120	Dx89160	Dx89200	Dx89250	Dx89300	Dx89400	Dx89500
Capacity	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW	160 kVA / 144 kW	200 kVA / 180 kW	250 kVA / 225 kW	300 kVA / 270 kW	400 kVA / 360 kW	500 kVA / 450 kW
INPUT									
Input wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 /415 Vac								
Voltage range	304 ~ 346 V (derating 10%), 346 ~ 456 V (full load)								
Rated Frequency	50/60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	≥ 0.99								
Total harmonic distortion (THDi)	≤ 3 %								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
OUTPUT									
Output wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output Voltage regulation	± 1%								
Output Frequency regulation	50/60 Hz ± 0.1% Hz in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)								
Crest Factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
BATTERIES									
DC Voltage	Lead acid battery: 600 Vdc Lithium iron phosphate battery : 614.4 Vdc								
Number of battery	Lead Acid battery : 12 V x 50 pcs (support 48 ~ 52 pcs) Lead Acid battery : 2 V x 300 pcs (support 288 ~ 312 pcs) Lithium iron phosphate battery : 3.2 V x 192 pcs (support 192/208 pcs)								
Charging current	Charging rate (settable) x battery capacity (settable) x number of battery groups (settable)								
SYSTEM									
Efficiency	Line mode ≥ 92% ECO mode ≥ 97%			Line mode ≥ 94% ECO mode ≥ 98%					
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overtemperature,battery low voltage,overvoltage,undervoltage and fan failure								
Communications	Standard configuration : RS232, RS485, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms								
Display	5.7 inches LCD touch screen								
OTHERS									
Operating temperature	0°C ~ 40°C								
Storage temperature	-25°C ~ 55°C (without batteries)								
Relative humidity	0% ~ 95% (non-condensing)								
Altitude	≤ 1000 m, Above 1000 m, derating 1% for each additional 100 m								
IP rating	IP 20								
Noise level at 1 m	≤ 65 dB						≤ 70 dB		
Dimensions (WxDxH) (mm)	800 x 800 x 1800			800 x 860 x 1700	1210 x 860 x 1950			2380 x 860 x 1950	
Packaged dimensions (WxDxH) (mm)	900 x 900 x 2050			900 x 1000 x 1950	1300 x 1000 x 2200			1300 x 1000 x 2200 (x2)	
Net weight (kg)	580	630	680	790	1135	1275	1355	2090	2300
Gross weight (kg)	630	680	730	840	1200	1340	1420	2200	2410

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
- For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.