

DG890

80 kVA ~ 500 kVA (3:3)
PF 0.9



Features

- Online double-conversion with DSP control
- Latest IGBT rectifier technology, high input power factor (> 0.99) and low THDi ($\leq 3\%$)
- High efficiency even at light loads
- Strong mixed load capacity and high overload capacity
- Compact and small footprint
- Unique ventilation design
- Batteries are connected directly to the bus, improving the impact resistance of UPS output
- Output isolation transformer using DZn0 winding makes strong capability with unbalanced loads
- Input and output are completely isolated for great security
- Simulated modular design makes maintenance easy and quick
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Front accessible maintenance and installation against wall allowed
- Bottom and sides cable entry compatible
- Generator compatible
- Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- Optional N+X redundancy parallel up to 6 units

Specifications

MODEL	DG8980	DG89100	DG89120	DG89160	DG89200	DG89250	DG89300	DG89400	DG89500
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 Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Voltage range	346 ~ 456 V (full load), 304 ~ 346 V (derating 10%)								
Rated frequency	50 / 60 Hz								
Frequency range	50 / 60 Hz \pm 5 Hz								
Power factor	\geq 0.99								
Total harmonic distortion (THDi)	\leq 3%								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	\pm 20% (settable)								
OUTPUT									
Output wiring	Three-phase five-wire (3 Φ + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output voltage regulation	\pm 1%								
Output frequency regulation	50 / 60 Hz \pm 0.1% in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	\leq 2% (linear load), \leq 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
BATTERIES									
DC voltage	600 Vdc (support 576 / 588 / 612 / 624 Vdc)								
Number of batteries	12 V x 50 pcs (support 48 / 49 / 51 / 52 pcs)								
Charging current	Charging rate (settable) x battery capacity (settable) x number of battery groups (settable)								
SYSTEM									
Efficiency	Line mode \geq 91%, ECO mode \geq 97%			Line mode \geq 94%, ECO mode \geq 98%					
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overtemperature, overvoltage, undervoltage, battery low voltage 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 ~ 40°C								
Storage temperature	- 25°C ~ 55°C (without battery)								
Relative humidity	0% ~ 95% (non-condensing)								
Altitude	\leq 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 (W x D x H) (mm)	800 x 800 x 1800			800 x 860 x 1700		1210 x 860 x 1950		2380 x 860 x 1950	
Packaged dimensions (W x D x H) (mm)	900 x 900 x 2050			900 x 1000 x 1950		1300 x 1000 x 2200		1300 x 1000 x 2200 (x 2)	
Net weight (kg)	580	630	680	790	1135	1275	1355	2090	2300
Gross weight (kg)	630	680	730	810	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.