NEXT WAVE
FOR ADVANCE TECHNOLOGY

Nextwave Giga power 20 KVA ONLINE 3ph/1ph

Features

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC),
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
  Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands.
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating /equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface)
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces.
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Model	Nextwave Giga power 20 kva online 3/1
Cabacity	20 KVA / 20 kw
INPUT	
Input wiring	Three-phase five-wire (3Φ + N + PE)
Rated voltage	380 / 400 / 415 Vac
Voltage Range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)
Rated frequency	50 / 60 Hz (auto-sensing)
Frequency range	40 ~ 70 Hz
Power factor	≥ 0.99
Bypass voltage range	- 40% ~ +15% (settable)
Total harmonic distortion (THDi)	≤ 5%
OUTPUT	
Output wiring	Single-phase three-wire (1Φ + N + PE)
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac
Voltage regulation	±1%
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz±0.1% Hz in battery mode
Waveform	Sinusoidal
Power factor	1
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)
Crest factor	3:1
Overload	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s
BATTERIES	
DC voltage	192 Vdc (192 ~ 240 Vdc settable)
Number of battery	16 pcs (16 ~ 20 settable)
Inbuilt battery (standard model)	External
Charging current	Standard model: 1 A; Long time model: 5 A (default),1 ~ 5 A settable; 12 A (optional)
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery
SYSTEM	
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode
Transfer time	0 ms
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)
Max. number of parallel connections	4
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)
Display	LCD + LED
OTHERS	
Operating temperature	0℃ ~ 40℃
Storage temperature	-25℃ ~ 55℃ (without batteries)
Relative Humidity	0 ~ 95% (non-condensing)
Altitude	≤ 1000 m, derating 1% for each additional 100 m
IP rating	IP 20
Noise level at 1m	≤ 58 dB
Dimensions (W×D×H) (mm)	191 × 495 × 515 (H)
Net weight (kg)	26.5 (H)
Gross weight (kg)	28 (H)

Rear Panel

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover

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