

# G4

10 kVA ~ 20 kVA  
(3:1 / 1:1)  
PF 1.0



## Features

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 ~ 499 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. 10 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%

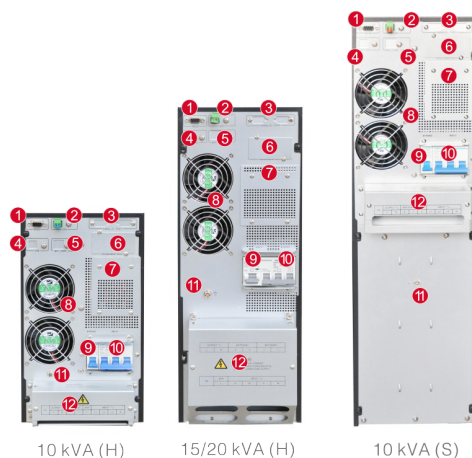
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal 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

## Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

## Rear Panel

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



## Specifications

MODEL	G4 10(3:1)	G4 15(3:1)	G4 20(3:1)
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
<b>INPUT</b>			
Input wiring	Three-phase five-wire (3 $\Phi$ + 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	$\geq 0.99$		
Bypass voltage range	- 40% ~ +15% (settable)		
Total harmonic distortion (THDi)	$\leq 5\%$		
<b>OUTPUT</b>			
Output wiring	Single-phase three-wire (1 $\Phi$ + N + PE)		
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac		
Voltage regulation	$\pm 1\%$		
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode		
Waveform	Sinusoidal		
Power factor	1		
Total harmonic distortion (THDv)	$\leq 1\%$ (linear load); $\leq 3\%$ (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s		
<b>BATTERIES</b>			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
Number of battery	16 pcs (16 ~ 20 settable)		
Inbuilt battery (standard model)	12 V / 9 Ah x 16	/	/
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional)		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
<b>SYSTEM</b>			
Efficiency	$\geq 94\%$ at 100% load, max. 95% at 60% load, $\geq 98\%$ in ECO mode		
Transfer time	0 ms		
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		
Max. number of parallel connections	4		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)		
Display	LCD + LED		
<b>OTHERS</b>			
Operating temperature	0°C ~ 40°C		
Storage temperature	-25°C ~ 55°C (without battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	$\leq 1000$ m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1 m	$\leq 58$ dB		
Dimensions (W x D x H) (mm)	191 x 495 x 711 (S) 191 x 495 x 350 (H)	191 x 495 x 515 (H)	
Packaged dimensions (W x D x H) (mm)	310 x 685 x 941 (S) 318 x 617 x 475 (H)	285 x 593 x 618 (H)	
Net weight (kg)	64 (S), 18.5 (H)	26.5 (H)	
Gross weight (kg)	72 (S), 20 (H)	28 (H)	

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

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