

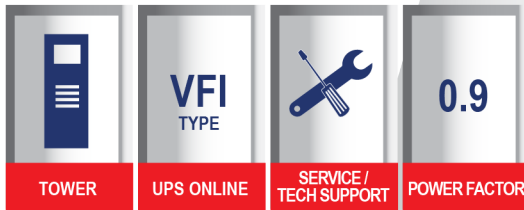
UP2000-G4

10-20kVA

3-level technology

Parallel operation

DSP Technology



The UP2000-G4 series is designed to withstand all types of loads found typically in Telecom, Data Centre, Banking and Laboratory applications.

GENERAL SPECIFICATIONS

- 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

TECHNICAL SPECIFICATIONS

MODEL	UP2010-G4 - 10kVA	UP2015-G4 - 15kVA	UP2020-G4 - 20kVA
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
INPUT			
Input wiring	Three-phase five-wire (3 Φ + 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	40Hz - 70Hz		
Power factor	> 0.99		
By-pass voltage range	- 40% ~ +15% (settable)		
THDi (Total Harmonic Distortion)	≤ 5%		
OUTPUT			
Output wiring	Single-phase three-wire (1 Φ + 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		
THDv (Total Harmonic Distortion)	≤ 1% (linear load); ≤ 3% (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s		
BATTERIES			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
Number of batteries	16 pcs (16 ~ 20 settable)		
Inbuilt battery (standard model)	12 V / 9 Ah×16	/	
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional, PF0.9)		
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		
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 battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP Rating	IP 20		
Noise level at 1 m	≤ 58 dB		
Dimensions (mm) (W x D x H)	191 × 495 × 711 (S) 191 × 495 × 350 (H)	191 × 495 × 515 (H)	
Packaged Dimensions (mm) (W x D x H)	310 × 685 × 941 (S) 318 × 617 × 475 (H)	285 × 593 × 618 (H)	
Net weight (kg)	64 (S), 18.5 (H)	26.5 (H)	
Gross weight (kg)	72 (S), 20 (H)	28 (H)	

- S = standard model: H = long time model.
- All specs subject to change without notice.