



Industry, Power plants , Home-office PCs, POS devices, data centers, is suitable for machines and all external devices supplied with 1phase where mains is 3phase

Specifications

- Wide input voltage and frequency range
- ONLINE double conversion technology
- Digital control technology
- Easy installation
- True sine wave output waveform
- UPS automatic test feature in each opening
- Intelligent battery charge management (ICM)
- Cold start feature (you can start with DC)
- UPS battery able to charge for non-operating property
- Lightning and surge protection (up to 1050 joules)
- Short-circuit and overload protection
- Fan speed adjustment based on load
- EMI / RFI filter
- RS232 supported
- Saving feature with ECO Mode
- 3 Phase input models can be fed also from 1 Phase

10-20 kVA



MODEL	PWR31-OL 10000 MODEL 10kVA	PWR31-OL 20000 MODEL 20kVA
Capacity	10 kVA / 10 kW	20 kVA / 20kW
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	03:01	
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 battery	16 pcs (16 ~ 20 settable)	
Inbuilt battery (standard model)	12 V / 9 Ah × 16	No Internal Battery
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	
SYSTEM		
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode	
Transfer time	0 ms	
Protections	Short-circuit, output overload, overtemperature, battery low voltage, overvoltage / undervoltage and	
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°C ~ 40°C	
Storage temperature	-25°C ~ 55°C (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 (W × D × H) (mm)	191 × 495 × 711 (With Battery) 191 × 495 × 350 (Without Battery)	191 × 495 × 515 (Without Battery)
Packaged dimensions (W × D × H) (mm)	310 × 685 × 941 (With Battery) 318 × 617 × 475 (Without Battery)	285 × 593 × 618 (Without Battery)
Net weight (kg)	64 (S), 18.5 (Without Battery)	26.5 (Without Battery)
Gross weight (kg)	72 (S), 20 (Without Battery)	