

COMET PLUS

10 kVA ~ 120 kVA (3:3)
PF 0.9



Features

- High frequency online double-conversion with DSP control
- Modular design, high reliability, simplified maintenance
- Double input distribution, higher reliability of system
- Input power factor correction (PFC)
- ECO mode operation for energy saving
- Wide input voltage range, 50 Hz / 60 Hz auto-sense frequency
- Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
- Input power factor > 0.99, input THDi ≤ 3%, output THDV ≤ 5%
- Output power factor 0.9
- High efficiency: load > 10%, efficiency ≥ 90%; load > 50%, efficiency ≥ 93%
- Digitized charger: flexible charger parameter and battery configuration setting, monitoring battery disconnected on line
- Share battery pack in parallel operation or separate battery pack for different UPS
- Flexible charger parameter and battery configuration setting, selectable battery number: 32 pcs / 34 pcs / 36 pcs / 38 pcs / 40 pcs
- Advanced intelligent battery management technique, prolong the working life of battery effectively
- Support battery cold start and mains supply self-starting
- 5.7 inches LCD touch screen, friendly human & machine interface
- Perfect protective function in hard and software, robust self-diagnosing, abundant event log for future check
- Perfect password control technology, including the first power-on password control, user password control and Maintenance password control.
- Reminders of battery out of warranty
- Standard emergency power off (EPO)
- Standard RS232 / USB / RS485 / dry contacts communication port
- Optional SNMP communication port
- Optional N+1 redundancy parallel up to 4 units
- Optional built-in isolation transformer
- Optional battery temperature compensation



Rear Panel

1. SNMP (optional)
2. RS232
3. RS485
4. USB
5. TEMP COMPENSATION
6. BATTERY PROTECTION
7. DRY CONTACT
8. PARALLEL PORT (optional)

Specifications

MODEL	comet+ 10		comet+ 20		comet+ 30		comet+ 40		comet+ 60		comet+ 80		comet+ 100		comet+ 120	
Capacity	10 kVA 9 kW		20 kVA 18 kW		30 kVA 27 kW		40 kVA 36 kW		60 kVA 54 kW		80 kVA 72 kW		100 kVA 90 kW		120 kVA 108 kW	
INPUT																
Rated voltage	380 V / 400 V / 415 Vac															
Voltage range	204 ~ 242 Vac (load ≤ 50%); 242 ~ 305 Vac (50% < load ≤ 70%); 305 ~ 520 Vac (70% < load ≤ 100%)															
Rated frequency	50 / 60 Hz (auto-sense)															
Frequency range	40 ~ 70 Hz															
Power factor	≥ 0.99															
Total harmonic distortion (THDI)	≤ 3%															
Bypass voltage range	Rated output voltage - 40% ~ rated output voltage + 20% (settable via LCD)															
OUTPUT																
Voltage	380 V / 400 V / 415 Vac															
Voltage regulation	±1%															
Frequency	Synchronized with utility in mains mode; Frequency conversion mode: 50 Hz input and 60 Hz output or 60 Hz input and 50 Hz output 50 / 60 Hz in battery mode															
Waveform	Sinusoidal															
Crest factor	3:1															
Total harmonic distortion (THDV)	≤ 1% (linear load); ≤ 5% (non-linear load)															
Transfer time	0 ms															
Inverter overload capability	102% ~ 127% for 10 min, 127% ~ 150% for 1 min, > 150% for 0.5 s															
Bypass overload capability	≤ 150%: long time running > 150%: shut down in 10 s															
BATTERIES																
DC voltage	±192 V (options: ±204 V / ±216 V / ±228 V / ±240 V)															
Inbuilt battery of standard model	32×12 V / 9 Ah		64 × 12 V / 9 Ah				No									
Charging current	1 ~ 12 A (settable via LCD)						1 ~ 24 A (settable via LCD)					1 ~ 24 A (settable via LCD) 1 ~ 48 A (optional)				
SYSTEM																
Efficiency	≥ 93%, ECO mode 98.5%															
Display panel	5.7 inches LCD touch screen															
Alarm	Battery mode, low battery, fans fault etc															
Max. parallel numbers	4															
Communications	RS232 / USB / RS485 / dry contacts (standard), SNMP (optional)															
EMI	EN62040-2															
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (surge)															
OTHERS																
Humidity	0 ~ 95% RH @ 0 ~ 40℃ (non-condensing)															
Noise level	≤ 60 dB															
Dimensions (W × D × H) (mm)	600 × 800 × 1360										600 × 800 × 1680					
Packaged dimensions (W × D × H) (mm)	720 × 920 × 1500										720 × 920 × 1820					
Net / Gross weight (kg) Without inbuilt battery	180 / 200	186 / 205	188 / 210	227 / 245	231 / 250	316 / 376	354 / 414									

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.