

Product Overview

The GIGANET™ 200-1000kVA True Online Double Conversion Intelligent Online UPS comes in a Tower type design and offers the maximum power protection, to ensure clean power is supplied to Network equipment & servers and seamlessly switches to battery backup when inconsistent power is detected.



FEATURES

Wide input voltage range 138-485Vac, UPS will derate to 40% when input voltage is below 305V
Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust, salt spray
High input power factor, it can be up to 0.99
3-level inverter topology, the efficiency can be up to 96%
THDi < 3% (100% linear load)
The UPS will work in sleeping mode when the load is very small
LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system
Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator
Support parallel expanded operation: maximum is 8 units
Support sharing batteries for the UPS in parallel
Batteries number of each group can be selected from 30 pieces to 50 pieces
Output power factor is 1.0, UPS can supply power to 100% unbalanced load
High adaptability for load, it can connect full inductive load or capacitive load
With 7 inches (Standard) and 10 inches (Optional) colorful touch LCD screen
Support SNMP, RS232, RS485, Dry contact interface

Product Specification

Capacity (VA)	200k	250k	300k	400k	500k	600k	800k	1000k
INPUT								
Nominal voltage	380/400/415Vac, (3Ph+N+PE)							
Operating voltage range	138 ~ 305Vac for 40% load; 305 ~ 485Vac for 100% load							
Operating frequency range	40Hz ~ 70Hz							
Power factor	≥ 0.99							
Harmonic distortion (THDi)	≤ 3% (100% linear load)							
Bypass voltage range	Max. voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min. voltage: -45% (Optional -10%, -15%, -20%, -30%)							
Bypass frequency range	Frequency protection range: ± 10%							
Power walk in	Support							
Generator input	Support							
OUTPUT								
Rated voltage	380/400/415Vac, (3Ph+N+PE)							
Power factor	1.0							
Voltage regulation	± 1%							
Output frequency	Line mode	Synchronize with input, when the input frequency > ± 10% (± 1%/ ± 2%/ ± 4%/ ± 5% optional), output 50/60 (± 0.1Hz)						
	Bat. mode	(50/60 ± 0.1%)Hz						
Crest factor	3:1							
Harmonic distortion (THDv)	≤ 1% with linear load; ≤ 3% with nonlinear load							
Efficiency	up to 96%							
BATTERY								
Battery voltage	± 180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs, 36pcs default, 36~50pcs output power factor 1.0, 32~34pcs output power factor 0.9, 30pcs output power factor 0.8)							
Charging current	80A (Max.)	100A (Max.)	140A (Max.)	180A (Max.)	200A (Max.)	280A (Max.)	340A (Max.)	
SYSTEM FEATURES								
Transfer time	Utility to Battery: 0ms; Utility to Bypass: 0ms							
Overload	Inverter mode	≤ 110% 60min, ≤ 125% 10min, ≤ 150% 1min, > 150% 1.2s shut down inverter						
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; > 1000%, 100ms						
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately							
Low battery voltage	Alarm and Switch off							
Self-diagnostics	Upon Power On and Software Control							
Backfeed protection	Support							
EPO (Optional)	Shut down UPS immediately (Turn to bypass optional)							
Battery	Advanced Battery Management							
Noise suppression	Complies with EN62040-3							
Audible & visual alarms	Line Failure, Battery Low, Overload, System Fault							
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault							
Reading on the LCD display	Input, Output, Battery, Command, Setting, Maintenance							
Communication interface	RS232, RS485, Parallel, LBS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)							
ENVIRONMENTAL								
Operating temperature	0°C ~ 40°C							
Storage temperature	-25°C ~ 55°C							
Humidity range	0 ~ 95% (Non condensing)							
Altitude	< 1500m, derating required when > 1500m							
Noise level	< 65dB	< 68dB	< 70dB	< 73dB	< 75dB	< 73dB	< 75dB	
PHYSICAL								
Dimension	S	600 × 850 × 2000mm			1200 × 850 × 2000mm		2000 × 850 × 2000mm	
W × D × H	F							
Net weight	360kg	400kg	480kg	530kg	800kg	890kg	1450kg	1600kg
STANDARDS								
Safety	IEC/EN 62040-1, IEC/EN 62477-1							
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)							

S: Without or only with one maintenance bypass breaker

F: With mains, bypass, maintenance bypass and output breakers

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design



Ordering Information

Part Number	Product Description
GN-UPS-200KVA-TE	Giganet 3-Phase Online Double Conversion UPS 200kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency
GN-UPS-250KVA-TE	Giganet 3-Phase Online Double Conversion UPS 250kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency
GN-UPS-300KVA-TE	Giganet 3-Phase Online Double Conversion UPS 300kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency
GN-UPS-400KVA-TE	Giganet 3-Phase Online Double Conversion UPS 400kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency
GN-UPS-500KVA-TE	Giganet 3-Phase Online Double Conversion UPS 500kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency
GN-UPS-600KVA-TE	Giganet 3-Phase Online Double Conversion UPS 600kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency
GN-UPS-800KVA-TE	Giganet 3-Phase Online Double Conversion UPS 800kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency
GN-UPS-1000KVA-TE	Giganet 3-Phase Online Double Conversion UPS 1000kVA Tower, External VRLA batteries, SNMP Card, Higher Efficiency