

Product Overview

The GIGANET™ 50-200kVA True Online Double Conversion Intelligent 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 (Phase voltage 80-280Vac), no derating when input voltage \geq 305Vac
High input power factor, it can be up to 1
3-level inverter topology, the efficiency can be up to 95.5%
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
Large charging current can meet the requirement of long time backup
Output power factor is 1.0, UPS can supply power to 100% unbalance load
High adaptability for load, it can connect full inductive load or capacitive load
Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator
LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system
Support USB, RS485, RS232, SNMP, dry contact card

Product Specification

Capacity	50kVA	60kVA	80kVA	100kVA	120kVA	150kVA	160kVA	180kVA	200kVA	
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	40 ~ 70Hz (50/60Hz Auto-Sensing)									
Power factor	1									
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%)									
Frequency protection range	50/60Hz ± 10%									
Generator input	Support									
OUTPUT										
Output voltage	380/400/415Vac (3Ph + N + PE)									
Voltage regulation	± 1%									
Power factor	1.0									
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 ± 0.2%)Hz								
Crest factor	3:1									
Harmonic distortion (THDv)	≤2% with linear load; ≤4% with non linear load									
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, > 150% 1.2s shut down inverter							≤110% 60min, ≤125% 1min, >125% 1.2s shut down inverter	
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; > 10000, 100ms								
EFFICIENCY										
Efficiency	up to 95.5%									
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)									
Charge Current	20A (Max.)			40A (Max.)			60A (Max.)			
SYSTEM FEATURES										
Transfer time	Utility to Battery: 0ms; Utility to Bypass: 0ms									
Backfeed protection	Support									
Alarm	Overload, utility abnormal, UPS fault, battery low, etc									
Protection	Short circuit, overload, over temperature, battery low, fan fault alarm									
Remote LCD	Support									
Communication	USB, RS232, RS485, parallel port, dry contact, intelligent slot, LBS, SNMP card (Optional), relay card (Optional)									
ENVIRONMENTAL										
Operating temperature	0°C ~ 40°C									
Storage temperature	-25°C ~ 55°C (No battery)									
Humidity range	0 ~ 95% (Non condensing)									
Altitude	< 1500m, derating required when > 1500m									
Noise level	< 55dB	< 58dB	< 60dB	< 62dB	< 63dB	< 64dB	< 64dB	< 66dB	< 66dB	
PHYSICAL										
Dimension W×D×H	250 × 828 × 868mm				442 × 850 × 1200mm					
Net weight	80kg	83kg	140kg	160kg	170kg	200kg	205kg	215kg	220kg	
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)									

Ordering Information

Part Number	Product Description
GN-UPS-50KVA-T	Giganet 3-Phase Online Double Conversion UPS 50kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-60KVA-T	Giganet 3-Phase Online Double Conversion UPS 60kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-80KVA-T	Giganet 3-Phase Online Double Conversion UPS 80kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-100KVA-T	Giganet 3-Phase Online Double Conversion UPS 100kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-120KVA-T	Giganet 3-Phase Online Double Conversion UPS 120kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-150KVA-T	Giganet 3-Phase Online Double Conversion UPS 150kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-160KVA-T	Giganet 3-Phase Online Double Conversion UPS 160kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-180KVA-T	Giganet 3-Phase Online Double Conversion UPS 180kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card
GN-UPS-200KVA-T	Giganet 3-Phase Online Double Conversion UPS 200kVA Tower Single Phase, PF 1. 0, External VRLA batteries, SNMP Card