

# Giant 3P/1P 10-40KVA



Giant 31 40K      Giant 31 10K/15K/20K/30K

- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Independent ventilation enhance durable operation under harsh environment
- Adjustable battery numbers
- Accept dual-mains input
- Parallel operation with up to 4 units (option)
- Variety of communication options available
- Reverse phase sequence operation and No neutral operation

## Giant 3P/1P 384VDC (220VDC Option) Online UPS Selection Guide

MODEL	Giant 31-10K	Giant 31-15K	Giant 31-20K	Giant 31-30K	Giant 31-40K
CAPACITY	10 KVA / 8 KW	15 KVA / 12 KW	20 KVA / 16 KW	30 KVA / 24 KW	40 KVA / 32 KW
<b>INPUT</b>					
Nominal Voltage	3 x 380VAC/400VAC (3Ph + N or 3Ph + N + G)				
Acceptable Voltage Range	165VAC ~ 280VAC (Ph-N) / 285VAC ~ 485VAC (Ph-Ph)				
Frequency	50Hz/60Hz ±5 Hz (±10%)				
<b>INVERTER</b>					
Nominal Voltage	220VAC/230VAC/240VAC (Adjustable)				
Waveform	Pure Sinewave				
Output Voltage Stability	Steady state	±1%			
	Transient state	±5%			
Frequency	50 Hz / 60 Hz				
Frequency Stability	± 1%				
Frequency Synchronisation Range	± 5Hz (Equal to bypass working range)				
Frequency Synchronisation Speed	1~2 Hz/s				
Power Factor	0.8				
Crest Factor	3:1				
Total Harmonic Distortion (THDv)	< 2% (Linear Load) ; < 5% (Non-linear Load)				
Dynamic in-rush Voltage Range	0%~>100%~>0% (R Load) <±5% ; 20%~>100%~>20% (R Load) ±3%				
Dynamic Recovery Time (III Grade)	0%~100% RCD load ; <60 ms recover to 90% of nominal voltage				
Transfer Time	0 ms				
Overload Capability	0% ~ 110% continuous running; 110% ~ 150% for 10 min~1 min; >160% for 200ms				
Short-circuit Capability	60~100ms				
Transient Response Time	< 5ms				
<b>BYPASS</b>					
Connection Type	Hardwire 3-wire (1Ph+N+G)				
Input Voltage Range	220VAC ± 25%				
Overload Capability/Short-circuit Capability	1.5 In~1.8 In 1h~30s				
	1.8 In ~ >2.0 In 30s~200ms				
<b>SYSTEM</b>					
Efficiency (@ linear load )	≥ 88%			≥ 90%	
ECO Mode (Non-parallel models)	Yes				
EPO Function	Yes				
Standard	IEC 61000-4-5 Protection surge, IEC 62040-2 EMC/EMI, IEC62040-1 Safety				
<b>BATTERY &amp; CHARGER</b>					
Rectifier	Type	6 pulse			
	Rated output voltage	384 VDC			
	Charger voltage	190VDC ~ 435VDC (Adjustable)			
	Charging current(max)	Default 10A, Maximum=Capacity/Battery Voltage		Default 10A, Maximum 40A, 5A@Full load	
Battery	Type	Support VRLA Battery			
	Numbers	32 pcs (29 ~ 32 adjustable)			
	Cold Start	Yes			
<b>PHYSICAL</b>					
IP Protection	IP20 (Default), IP21/IP31 (Option)				
Dimensions, D x W x H (mm)	656 x 405 x 817				821 x 432 x 1159
Net Weight (Kgs)	118	120	145	193	278
<b>ENVIRONMENT</b>					
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nomina linput voltage, recharging batteries and no overload, 45°C derating to 85% with linear load				
Operating Humidity	0~90% (non-condensing)				
Noise Level	Less than 70dB @ 1 Meter				
<b>MANAGEMENT</b>					
Modbus RS-232/RS485	Supports Windows® Family, Linux and MAC				
Dry Contacts	6 outputs and 2 inputs				
Optional SNMP	Power management from SNMP manager and web browser				

Product specifications are subject to change without further notice.