



## Applications:

Giant iND is suitable for industrial and facilities applications.



- Industrial process ( and control system, industrial machinery, instrument and measurement, process monitoring and control, security and transport systems....)



- Infrastructures (Hospital, airport, semiconductor, water treatment, metallurgy)



- Energy industry (gas and oil, nuclear power)



- Military application

## GTI33 Industrial Trifásica 20K

MODEL	Giant iND 31 - 20K
CAPACITY	20KVA/16KW
<b>INPUT</b>	
Nominal Voltage	3 x 380VAC (3Ph + G or 3Ph + N + G)
Acceptable Voltage Range	304VAC ~ 456VAC
Frequency	50Hz ±5 Hz (±10%)



MODEL		Giant IND 31 - 20K
<b>OUTPUT</b>		
Nominal Voltage		220VAC/230VAC/240VAC (Selectable)
Connection Type		Hardwire 3-wire (1Ph+N+G)
Waveform		Pure Sinewave
Output Voltage Stability	Steady state	±1%
	Transient state	±5%
Frequency		50 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)
		<4% (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
Phase Displacement		120° ±1% (balanced load)
		120° ±2% (imbalances 50% of the load)
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 / 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)		≥90%
ECO Mode (Non-parallel models)		Yes
EPO Function		Yes
Standard		IEC 61000-4-5 Surge Protection, IEC 62040-2 EMC/EMI, IEC62040-1 Safety



MODEL		Giant IND 31 - 20K
<b>BATTERY &amp; RECTIFIER</b>		
Rectifier	Type	6 pulse
	Rated output voltage	220 VDC
	Charger voltage	216VDC ~ 243VDC (Adjustable)
	Charging current(max)	Default 10A, Maximum=Capacity / Battery Voltage
Battery	Type	Support VRLA Battery
	Numbers	16 - 18 pcs (adjustable)
	Reverse Diode	Yes
	Cold Start	Yes
<b>PHYSICAL</b>		
IP Protection		IP20 (Default), IP21/IP31 (Option)
Dimensions, DxWxH (mm)		800 x 800 x 1800
Net Weight (Kgs)		400
<b>ENVIRONMENT</b>		
Operating Temperature		0~ 35°C continuous running, 40°C 8-hour running at nominal input 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® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC
Dry Contacts		6 outputs and 2 inputs
Optional SNMP		Power management from SNMP manager and web browser