

NEUROPOWER

Powering Possibilities.
Connecting Futures.

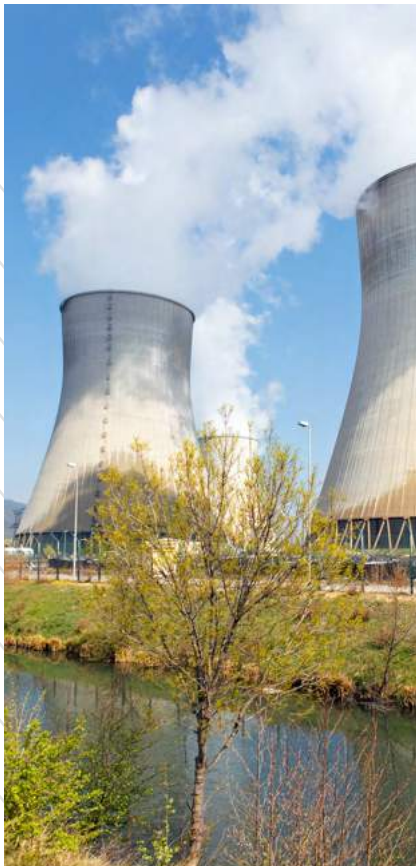


- Commercial UPS
- **Giant iND Series**

Giant iND Series

The Giant iND UPS is the UPS designed for the most critical applications installed in the harshest environments. By further innovating its predecessor, the Giant iND gives users double isolation for the UPS system to fully isolate power line noises, spikes and transients. Furthermore, the Giant iND's carefully selected robust electrical components allow the UPS to eliminate harmful power distortions from the utility while withstanding all kinds of severe impacts regardless of the application supported.

In the mechanical aspect, the UPS enclosure is uniquely designed without screws. The unique screwless enclosure is compensated with heavy duty protective coating on the printed circuit board assemblies (PCBA) for extra anti-moist, anti-electric leakage, anti-dust, anti-corrosion and vibration sustainable to withstand the harshest environment possible. As a result, the Giant iND UPS is the people's choice when it comes to power protection for critical applications in harsh environments.



**COAL FIRED
POWER STATION**



OIL AND GAS



**MANUFACTURING
INDUSTRY**

● Giant iND Series

10kVA-400kVA features

In providing a constant and reliable power supply in an extreme environment, the Giant iND UPS comes with excellent features that support its quality output.

1. True online double conversion technology for pure sine wave output

Converting power twice to produce a smoother and cleaner output for sensitive equipment. It also improves equipment performance and efficiency while avoiding the possibilities of power fluctuations.

2. DSP technology with active power factor correction in all phases

Perfect for critical industrial applications, this feature ensures users with a high output performance from the UPS at a high power efficiency (93% with an output power factor of 0.8).

3. Double isolation technology on top of true online double conversion with DSP for the best performance without power irregularities

In some cases, the output may be at a different voltage from the load requirement. For the best performance without power irregularities, the double isolation technology ensures a clean power supply by isolating power line noises, spikes and transients.

4. Multiple loops independent modulation of full bridge inverters allows 100% efficiency even for unbalanced loads

Ideal solution for critical applications with an unstable power drawing pattern. The multiple loops ensure that a constant and clean power supply will be supplied despite the irregular power consumption trend.





5. Parallel capability up to 4 units of UPS for large applications

Ensures that the total load demand is met by all the UPS sharing the load between themselves equally. A constant power supply is guaranteed even if one of the UPS fails and needs maintenance. The remaining UPS on standby will continue supporting the load.

6. Accepts the typical 220Vdc industrial DC source for 3/1 phase from 10-120kVA while constantly output AC voltage efficiently

Provides versatility for users in the industrial sector who uses the typical 220Vdc industrial DC power source. UPS can still perform its best and efficiently to supply the preferred AC power output.

7. Freedom to wire from the top or bottom

Users can freely choose their UPS's wiring system according to their initial power cable wiring in a facility without interfering with the existing electrical networks.

8. All components are easily accessible

Replacement or maintenance processes are made easy as all the components can be accessed from the UPS's front panel. Therefore, further reducing the UPS's mean-time-to-repair (MTTR) is crucial for industrial applications.

9. Unique ventilation design

Each model is uniquely designed with a ventilation system to dissipate heat from the top using split air flow technology to avoid heat congestion within the UPS under those harsh environments. This helps to avoid equipment failure due to overheating.



Internal view of Giant iND series 10K-80K

10. UPS Power management software available for full UPS connectivity, management and monitoring

Experience complete UPS monitoring and management via its various communication ports and power management software that is compatible with Support Windows® family, Unix, Linux, Ubuntu, Solaris & MAC Operating Systems. Connect to your UPS easily through smart communication via USB or SNMP card connection.

● Giant iND Series Models

This UPS comes with the ultimate robust components with maximum accessibility at different power ratings to provide a universal power protection solution.

10K - 80K



100K - 120K




160K - 400K



Technical Specification

Specification	Model	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	Giant iND	
		3P10KS	3P15KS	3P20KS	3P30KS	3P40KS	3P60KS	3P80KS	3P100KS	3P120KS	3P160KS	3P200KS	3P250KS	3P300KS	3P400KS	
	Capacity (kVA / kW)	10 / 8	15 / 12	20 / 16	30 / 24	40 / 32	60 / 48	80 / 64	100 / 80	120 / 96	160 / 128	200 / 160	250 / 200	300 / 240	400 / 320	
Input	Nominal Voltage (VAC)	3 x 380/400/415 (3Ph + N or 3Ph + N + G)														
	Voltage Range (VAC)	304 - 456														
	Frequency (Hz)	50 ± 5 (± 10%)														
Output	Nominal Voltage (VAC)	3 x 380/400/415 (Selectable) 3Ph + N + G														
	Waveform	Pure Sine Wave														
	Voltage Stability	Steady State	± 1%													
		Transient State	± 5%													
	Output frequency and Range (Hz)	50 ± 1%														
	Synchronized Frequency and Range (Hz)	± 50 (Equal to bypass working range) at slew rate 1 - 2Hz/s														
	Crest Factor	3:01														
	Total Harmonic Distortion (THDv)	< 2% (Linear Load); < 4% (Non-Linear Load)														
	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 (ms)	0														
	Overload Capability	0% - 110% continuous running; 110% - 150% for 10 min - 1 min; > 160% for 200ms														
	Bypass Connection Type	Hardwire, 5 wires (3Ph + N + G)														
	Bypass Voltage (VAC)	3 x 380/400/415														
	Bypass Overload Capability	1.5 Line In - 1.8 Line In; 1hrs - 30s														
	Bypass Short-Circuit Capability	1.8 Line In - 2.0 Line In; 30s - 200ms														
	System Efficiency (at Linear Load)	90%	91%				92%				93%					
ECO Mode (Non-Parallel Models)	Yes															
EPO Function	Yes															
Battery and rectifier	Rectifier	Type	6 Pulse				6 Pulse or 12 Pulse				6 Pulse					
		Rated Output Voltage (VDC)	384													
		Charger voltage (VDC)	395 to 435 (Adjustable)													
		Max Charging current (A)	10A @ Max Capacity or Battery Voltage				10 - 40 Max Capacity or Battery Voltage									
	Battery	Type	Support VRLA Battery													
Quantity		32 pcs (29 - 32 Adjustable)														
Communication	Interface Port	USB / RS232 / RS485														
	Intelligent Slot	AS400 / SNMP (Optional)														
Power Management	Software	Yes; Support Windows® family, Unix, Linux, Ubuntu, Solaris & MAC Operating System														
Operating Environment	Operating Temperature	0 - 35°C continuous running, 40°C 8 hour running at Nominal Input Voltage, Recharging Battery and No Overload, 45°C derating to 85% with Linear Load														
	Humidity	0 - 90% (Non-Condensing)														
	Noise Level @ 1 Meter (dB)	< 70											< 72			
Physical	Dimension, W x D x H (mm)	800 X 800 X 1800						1200 X 800 X 1800			1600 x 800 x1800			1630 x 850 x 1900	1800 x 900 x 1900	
	Weight (kg)	290	312	349	385	427	508	563	760	850	1120	1390	1750	2100	2300	
Design Standards	Safety	IEC 61000-4-5 Protection Surge, IEC 62040-2 EMC/EMI, IEC62040-1 Safety														
	IP Classification	IP20 (Default); IP21 or IP31 (Optional)														

NEUROPOWER (M) SDN BHD 200301034724 (637145-P)

 No. 23, Jalan Serendah 26/41, Hicom Industrial Estate,
40400 Shah Alam, Selangor.

 enquiry@neuropower.com.my  1300 88 6772

 www.neuropower.com.my  NeuropowerMy

