

NEUROPOWER

Powering Possibilities.
Connecting Futures.



● Commercial UPS

● **Giant Commercial Series**

Giant Commercial Series

Different from transformerless true online double conversion UPS with options to add an isolation transformer to the system, the Giant Commercial is a UPS designed to work with a built-in isolation transformer. Such topology makes the UPS more durable and heavier duty so even industrial or military level critical applications at super harsh environments with high temperature, high humidity, high corrosive level, lots of dust as well as vibrated environments remain protected by the UPS.

The Giant Commercial UPS gives users the freedom to customize everything from the UPS capacity, chassis, input-output voltages, and enclosure standards to even which section to place the isolation transformer (input or output). The Giant Commercial UPS is just so exciting to use because it lets users choose the best gadgets and technology to protect what is most important to them.



**INDUSTRIAL
APPLICATION**



**ELECTRICAL
POWER PLANT**



OIL AND GAS

Giant Commercial Series 10kVA-200kVA features

Learn the features of Neuropower's Giant Commercial UPS as a reliable power supply for mission critical applications and equipments



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 applications, this feature ensures users with a high output performance from the UPS at a high power efficiency (up to 92% with an output power factor of 0.8).

3. State of the art DSP + MCU technology

Guarantees users with high performance power quality with low total harmonic voltage distortion (THDv). The Giant Commercial achieves to minimize the detrimental effect of (THDv) by less than 2.5% at loads lesser than 25%.

4. Dual input capability with reverse phase frequency operation and supports non-neutral input

The UPS will take in input voltages from various sources to ensure that it has an ever ready power to supply and also to conserve battery power during emergency. Input power quality is controlled with reverse phase frequency operation and supports non-neutral input.

5. Large 7 inch touch LCD screen for UPS monitoring and configuration

Allows easy monitoring and control experience of the UPS parameters. This includes load level, battery level, input or output voltage, discharge time and fault conditions.

6. Wiring kneading board located at front of UPS easing installation

Users have the freedom to customize their UPS with the best power cables and communication accessories that suit their power protection needs. Installation is made easy as the wiring kneading board is accessible from the front.

7. Built in maintenance bypass and static switch in UPS

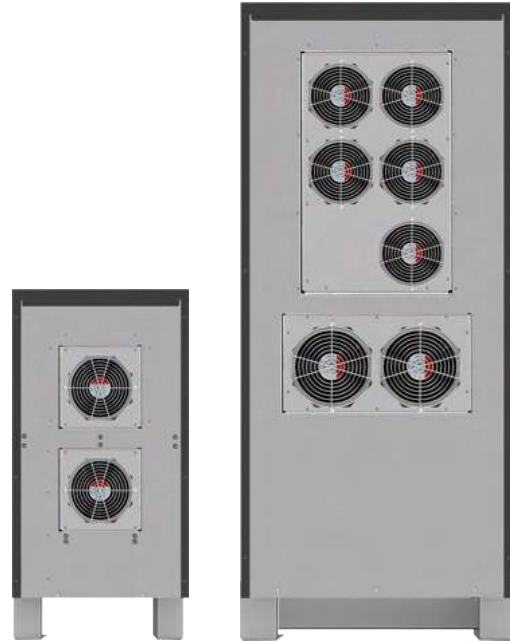
This feature facilitates the maintenance process while improving fault clearing capacity due to critical events such as short circuits or UPS's internal failure. Both power solutions work in order while maintaining power supply and protection to their connected devices.

8. Coated PCBAs to withstand super harsh environments

The Giant Commercial operates beautifully for mission critical applications no matter how severe the external environments are. This is made possible due to its coated PCBAs with anti dust, anti electrical leakage, anti moisture and anti corrosion coatings.

9. Redundant ventilation design

Each Giant Commercial model is uniquely designed with a ventilation system to dissipate heat and ensure continuity of ventilation under harsh environments. It helps to avoid equipment failure due to overheating.



Ventilation system at the back of Giant Commercial models 10kVA (left) and 200kVA (right)



10. True galvanic isolation transformer design

In certain circumstances, the output of the UPS may be at a different voltage from the load requirement. For electrical safety, the isolation transformer ensures a clean power supply by eliminating stray current with solid zero voltage at output neutral through its galvanic isolation.

11. Control design for various load application purpose

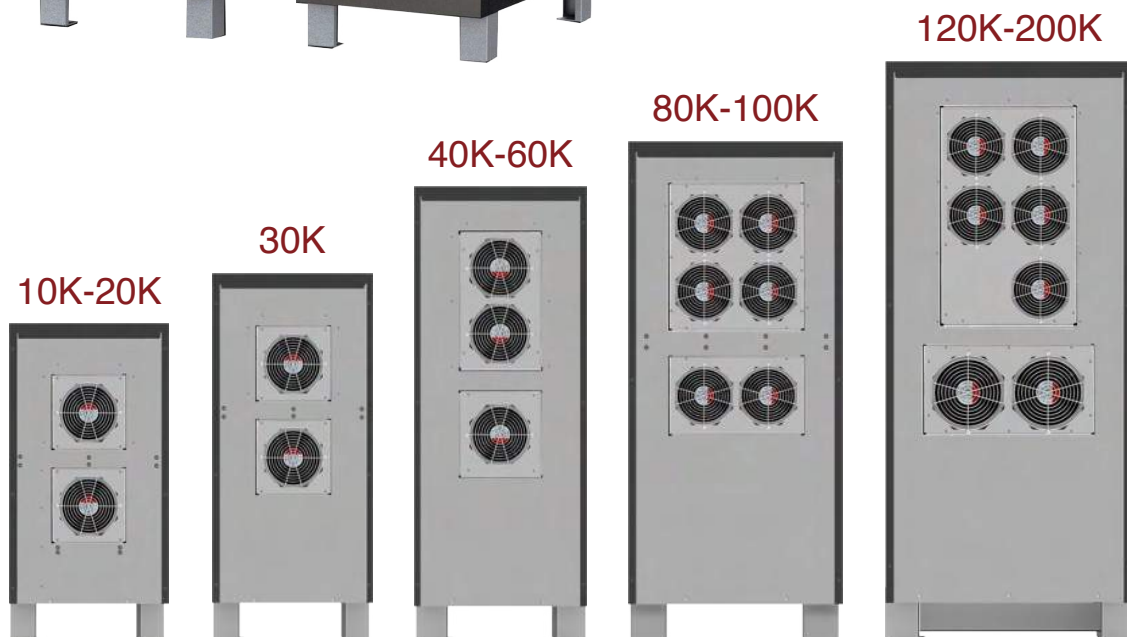
Its unique topology of using the galvanic isolation transformer helps the UPS to withstand all kinds of loads. It becomes a more durable and heavy duty, eligible for mission critical applications even under harsh environments.

● Giant Commercial Series Models

This UPS comes with robust internal components and different power rates to provide industrial grade power protection solution.



Giant Commercial Series side view




Giant Commercial Series rear view

Technical Specification

Specification	Model	Giant	Giant	Giant	Giant	Giant	Giant	Giant	Giant	Giant	Giant	Giant	
		3P10KS	3P15KS	3P20KS	3P30KS	3P40KS	3P60KS	3P80KS	3P100KS	3P120KS	3P160KS	3P200KS	
	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	
Input	Nominal Voltage (VAC)	3 x 380 / 400 (3Ph + N)											
	Input Range (VAC)	285 - 475											
	Frequency (Hz)	50 or 60 ± 10%											
Output	Nominal Voltage (VAC)	3 x 380 / 400 (3Ph + N)											
	Precision	Stationary: ± 1%, Transitory: ± 5% (Load Variations 100-0-100%)											
	Frequency (Hz)	50 / 60 Synchronized ± 1% with Mains Absent ± 0.1											
	Slew Rate Hz/s	± 1											
	Waveform	Pure Sine Wave											
	Total Harmonic Distortion (THDv)	< 2% (Linear Load); < 5% (Non-Linear Load)											
	Phase Displacement	120° ± 1% (Balanced Load); 120° ± 2% (Imbalances 50% of the Load)											
	Dynamic Recovery	3 Cycles at 90% for the Static Value											
	Overload	110% for 10 min; 150% for 60 seconds; >160% for 200ms											
	Crest Factor	3:1											
	Power Factor	0.6 to 1 (Inductive or Capacitive)											
	Imbalance Output	< 1% of Voltage @ 100% Unbalanced Load											
	Static Bypass	Type	Solid State										
Voltage (VAC)		3 x 380 / 400 (3Ph + N)											
Frequency (Hz)		50 or 60											
Transfer Time		Zero and automatic retransfer after alarm is cleared											
Overload		150% for 1 hour; 180% for 30 seconds; > 200% for 200ms											
Overall Efficiency	Line Mode	89%	90%	91%	92%								
	Battery Mode	90%	91%	92%	93%								
Battery and charger	Type and Quantity	12VDC x 29-32 pcs (Adjustable)											
	Battery voltage (VDC)	384 (based on 32pcs batteries)											
	Regulation	± 1%											
	Max Charging current (A)	10 @ Max Capacity / Battery				10 - 40 @ Max Capacity / Battery							
	Charging voltage (VDC)	432 (based on 32pcs batteries)											
Communication	Interface	USB, RS232, RS485, Dry Contact (Input and Output) and Smart Slot for SNMP and AS400 card											
Physical	Protection	IP 21											
	Dimension, W x D x H (mm)	405 x 656 x 817			405 x 656 x 941	432 x 821 x 1159			554 x 975 x 1286		554 x 975 x 1326	705 x 1051 x 1376	
	Weight (kg)	118	120	145	193	278	365	471	573	650	785	840	
Design Standards	Safety	IEC 61000-4-5 Protection Surge, IEC 62040-2 EMC/EMI, IEC62040-1 Safety											

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

