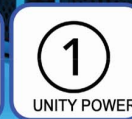
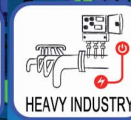
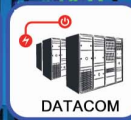


GT Series

10 to 80 kW
3 Phase UPS



www.perpetualpowerups.com

MAIN FEATURES

- ♦ True double conversion online UPS
- ♦ VFI SS 111 classification (according to IEC 62040-3)
- ♦ Very high efficiency up to 96.5%
- ♦ 50>60 or 60>50Hz frequency converter as standard
- ♦ Various operating modes are possible
- ♦ Highly reliable
- ♦ Redundant and power-parallel configuration
- ♦ Periodical test of battery
- ♦ Built-in step-up converter
- ♦ Adjustable Battery Design
- ♦ Power factor corrected
- ♦ 0 to 100 % unbalanced load

• True double conversion with Active Power factor connection

A true double conversion online UPS, the GT Series employs next-generation technology to provide reliability, efficiency and flexibility in a remarkably small footprint. The GT Series is engineered to deliver greater real power to protect the most demanding applications, including today's leading power factor loads. High performance IGBT's, positioned at the front end, provide active filtering to assure the cleanest sinusoidal waveform. Advanced digital controls and communications give the user easy and confident command of the system and an innovative DC interface prolongs battery service life.

• High reliability State-of-Art UPS design

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

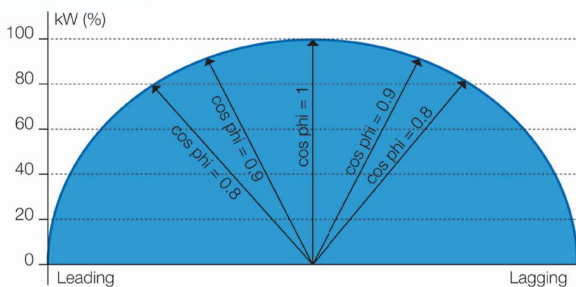
• Parallel operation with common battery

The system can be operated in parallel, increasing the capacity and performance. Besides, this parallel UPS system can share common battery packs which might greatly reduce the expense and reach the same performance.

• Output power factor 1

For critical applications, GT Series 3-phase online UPS with output power factor 1 ensures higher efficiency and advanced performance. For the same nominal power the GT Series UPS provides more active power (20.5%) than conventional UPS systems. This allows more loads to be connected. High output power at capacitive loads. Modern server power supplies tend to absorb capacitive currents. The GT Series makes more capacitive power available than conventional UPS systems.

Fully rated output power



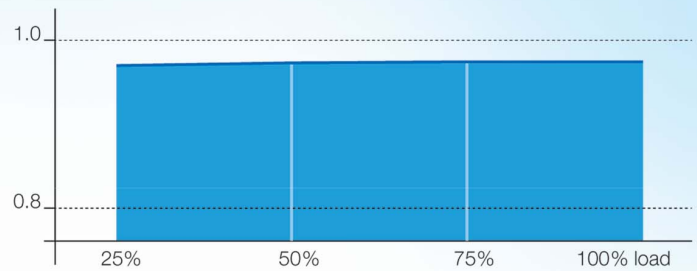
• Active power factor correction in all phases

GT series UPS brings you better Power factor correction in all phases and it leads to an improved Input efficiency. Input IGBT's makes powering UPS thru power generators and MV/LV transformers easier and more efficient, reducing loss in systems and coils and correcting the power factor and eliminating harmonics by the loads powered by the UPS itself. In addition to this, the progressive start-up of the rectifier and the possibility of reducing the recharge current of the batteries, allow for the containment of the input current absorbed and therefore do not overload the source, especially when the source is a generator.

• Sinusoidal input current THDi

Conventional UPS systems absorb current which has very high levels of distortion (up to 35%). This distorted current causes an appreciable rise in the specified, limited harmonic level. In addition, such currents also have serious notches, which cause so-called commutation notches in the supply system. The result is a phase shift between voltage and current and thus reactive power absorption. Other UPS manufacturers install filter systems in the energy supply, resulting in over dimensioning of standby generating plant, cables

Input power factor versus load



• Smart battery charger design to optimize battery performance

This UPS is equipped with 3-stage charger for optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.

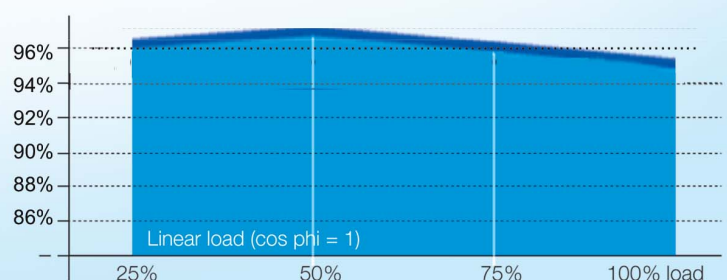
• Maintenance bypass available

Designed for systems which uptime is critical, the maintenance bypass allows seamless transfer of an electrical load from UPS power to mains.

• Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands. This feature can allow UPS to keep running even when some battery packs are damaged. to detect performance degradation and predict battery failure. Deep discharge protection: to prevent the batteries being discharged below a level from which they cannot be recovered (especially when discharged over long periods with very low loads). Low AC ripple current: from a high-frequency battery charger, to ensure the batteries are not subjected to this damaging element commonly experienced with some other UPS and power supply designs. Wide input voltage range: from a rectifier that can work down to less than 40% of its nominal supply rating (at half load), removing the need to discharge the batteries.

AC - AC efficiency





GT Series

10 to 80 KW

3 Phase UPS

- **Adjustable charging current for ease of battery use & Life**

Users can adjust charging current via LCD setting based on applications.

- **ECO mode operation for energy saving**

ECO mode improves the efficiency up to 98% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

- **Emergency power off function (EPO)**

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

- **ADVANCED COMMUNICATION**

Advanced communication, multiplatform, for all operating systems and network environments: Supervision and shutdown, Software for Windows operating systems 10, 2017, Vista, 2003, XP, Linux, Mac OS X, Sun Solaris, Linux, Novell and other Unix operating systems. Plug and Play option available. UPS is supplied with a cable for direct PC connection RS232/ RJ 484 double serial port Slot for network adapter installation; Emergency Switching Device Contact for switching off the UPS by remote emergency button. Remote led mimic panel or graphic display.

MODEL	GT 10	GT 20	GT 30	GT 40	GT 60	GT 80
PHASE	3-phase in / 3-phase out					
Captive Capacity	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA
Active Capacity	10KW	20KW	30KW	40KW	60KW	80KW
PARALLEL CAPABILITY	Up to 6 units in parallel					
INPUT						
Nominal Voltage	3 x 400 VAC (3Ph+N)					
Voltage Range @ 50% load	280 V -480 VAC (3-phase)					
@ 100% load	304 V -480 VAC (3-phase)					
Frequency Range	45Hz - 65Hz					
Power Factor	≧ 0.99 @ 100% Load					
OUTPUT						
Output Voltage	3 x 360*/380/400/415 VAC (3Ph+N)					
AC Voltage Regulation (Batt. Mode)	± 1%					
Frequency Range (Synchronized Range)	50 Hz ± 10 %					
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion (Linear Load)	≧ 1 % THD					
(Non-linear Load)	≧ 3 % THD					
Transfer Time	Zero					
Waveform (Online Mode)	Pure Sine wave					



GT Series 10 to 80 kw 3 Phase UPS

MODEL	GT 10	GT 20	GT 30	GT 40	GT 60	GT 80
Overload	105-110% for 1 hr, 111-125% for 10 min, 150% for 1 min.					
EFFICIENCY	Online Mode up to 96.5% and up to 98% on Eco mode					
INDICATORS						
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
PHYSICAL						
Cabinet Size	781 x 250 x 750		815 x 300 x 1000		790 x 360 x 1010	
Weight	33	48	60	61	108	113
ENVIRONMENT						
Operation Temperature	0-45° C					
Operation Humidity	< 95% and non-condensing					
Noise Level @ 1 meter	55 dB	58 dB	65 dB	65 dB	72 dB	75 dB
MANAGEMENT						
Smart RS-232 / USB	Supports Windows ² 2000/2003/XP/Vista/2008, Windows ² 7/8/10, Linux and MAC					
Optional SNMP	Power management from SNMP manager and web browser					



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Our Products



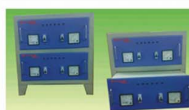
Solar Products

The production of Solar Power is completely silent and odour free. Simultaneous charging through mains as well as solar panel.



Servo Voltage Stabilizer

Servo controlled AC Voltage Stabilizer Exclusively designed to protect your costly equipments from harm caused by undesired voltage fluctuations..



Float Cum Boost Charger

The Matrix FCBC with Green technology Power ranges gives the highest efficiency performance on the market upto 93% over a wide range of uses



Online UPS

True on-line static bypass technology, to provide strong overload and fault protection device. Internal Manual Maintenance Bypass..