

GE Digital Energy Power Quality

Introduction

The Digital Energy™ GT Series Rackmount UPS provides high quality power protection in a cost-effective package. The GT Series is a true VFI (Voltage and Frequency Independent), on-line double conversion, high-performance device.

The UPS is designed to support and protect mission critical applications, and the bypass mode provides high reliability against mains power disturbances. All GE Digital Energy™ GT UPS's are microprocessor-controlled, with extended optional battery pack runtime options available.

The GT Series is designed especially for typical rack mount demands, including long backup times and high ambient temperatures, but can be a stand-alone unit for increased versatility.

Benefits

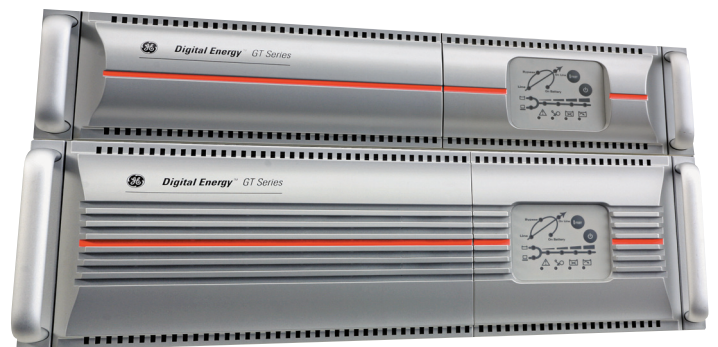
- > Rack design provides application versatility
- > Rack height maximizes rack space
- > Easy plug-in connection of battery packs for extended runtime
- > Simple to install and operate
- > Fully compliant with international standards for VFI (IEC 62040-3) operation, providing full power protection for demanding critical applications
- > Programmable switch-off for less critical loads to maximize uptime of critical devices (load shedding)
- > Available slot for SNMP plug-in card, potential-free relay contacts and RS-232/contact interface, providing maximum flexibility

Performance Features

- > **High input power factor** (>.97) and **low input distortion** prevents disturbances to other electrical equipment, eliminating the need for costly filters or oversized feeders
- > **Compact footprint**, easily transportable, robustly designed system with low audible noise, suitable for both office and industrial environments
- > Utilizes high-frequency PWM (Pulse Width Modulation) digital control technique, resulting in extremely **low output distortion** and **fast transient response**, eliminating the need to oversize the UPS
- > Robustly designed to handle **short-circuit, high overload and overheating** conditions, reducing maintenance and service costs
- > GT Series **High Crest Factor** (3:1) capability makes it ideal for computer loads, while eliminating the need to oversize the UPS
- > **Very wide AC-input voltage** capability minimizes the need to switch to batteries, resulting in increased battery life
- > **On-line double conversion** technology eliminates power reliability problems
- > Automatic **internal bypass**
- > **UPS management software** facilitates operation and maintenance of the UPS

1000-3000VA 19" Rackmount

Digital Energy™ GT Series Uninterruptible Power Supply (UPS)



Technical Specifications – UL approved

Models	GT1000R	GT1500R	GT2200R	GT3000R
Rating (VA/W)	1000 / 800	1500 / 1200	2200 / 1760	3000 / 2400
Battery (V/Ah)	36 / 7	48 / 7	48 / 9	72 / 9
Backup Time @ 50% load (25° C)	21 min.	14 min.	21 min.	14 min.
Option for Additional Batteries	Yes	Yes	Yes	Yes
Enclosure (Table 1)	C	D	D	E
Net Wgt Incl. Batteries (kg / lbs)	19 / 42	24 / 52.8	24 / 52.8	34 / 74.9
Input Voltage @ 100% load (VAC)	80-138	80-138	80-138	80-138
Input Frequency (Hz)*	50 / 60	50 / 60	50 / 60	50 / 60
Output Voltage	100 / 110	100 / 110	100 / 110	100 / 110
	120	120	120	120
Output Frequency (Hz)*	50 / 60	50 / 60	50 / 60	50 / 60
Number of Outlets	(6) NEMA 5-15R	(6) NEMA 5-15R	(4) NEMA 5-20R (1) NEMA L5-20R	(4) NEMA 5-15R (4) NEMA 5-20R (1) NEMA 5-30R
SNMP Compatibility		Yes		
Core Voltage		120		
PWM (Pulse Width Modulation)		Yes		
Maintenance Bypass		Yes		
Internal Batteries		Yes		
Input Performance Range	Voltage (-33 to +17%); Frequency (55 to 65 Hz)			
Output Performance	<ul style="list-style-type: none"> Output THD Load Non-Linear (< 6%); Linear (< 3%) Voltage Regulation Load Static (2%); 0-100% Step (8%) 			
Overload Capability	150% for 30 Seconds			
Efficiency	> 87%			
Communications Interface	RS-232, Plug and Play, open collector alarm contacts			
Color	Front bezel: Aluminum Grey (RAL 9006); Cabinet: White (RAL 9003)			
Operating Temperature	32° F - 104° F (0° C - 40° C)			
Relative Humidity	95% non-condensing			
Audible Noise	(Table 2)			
Safety	UL 1778, CSA22.2-107, IEEE 62.41 CAT. A Lightning Safety			
EMC	FCC Class B (1kVA), FCC Class A (remaining), CISPR PUB. 22 Class A			
Enclosure	NEMA 1			

* Auto Selectable



Table 1

	Height	Width	Depth
Enclosure C	3.5" (8.9 cm)	17.3" (43.9 cm)	17.7" (45 cm)
Enclosure D	3.5" (8.9 cm)	17.3" (43.9 cm)	20.7" (52.6 cm)
Enclosure E	5.2" (13.2 cm)	17.3" (43.9 cm)	19.8" (50.3 cm)

Table 2

	Audible Noise at Unit Front
1kVA	40dBA @ 3.3 feet (1 meter)
1.5 & 2kVA	45dBA @ 3.3 feet (1 meter)
3kVA	47dBA @ 3.3 feet (1 meter)



GE Digital Energy – Power Quality
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Information subject to change without notice. Please verify all details with GE.
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