

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
- > UPS 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)
- > Integrated 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
50% Load	21 min.	12 min.	15 min.	14 min.
100% Load	6 min.	4 min.	5 min.	5 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
Outlet (Qty) Type	(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)			
Certifications	UL 1778, CSA22.2-107, IEEE 62.41 CAT. A Lightning Safety			
EMC	FCC Class B (1kVA), FCC Class A, CISPR PUB. 22 Class A			
Enclosure	NEMA 1			
Warranty	24 months after seller's shipment to customer			

* Auto Selectable

** Refer to Product Description publication for runtimes



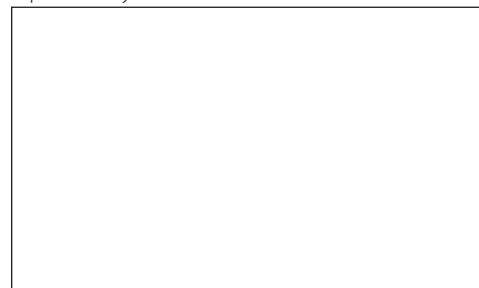
Table 1

	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)

Represented by:



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