GE Digital Energy Power Quality

Introduction

With the Digital Energy™ GT Series, your mission critical equipment is protected from any fluctuation in your power source, enabling you to concentrate on your core activities. The GT Series is a true VFI (Voltage & Frequency Independent) on-line double conversion, transformerless, intelligent and high performance UPS.

This UPS provides critical power protection to suit a wide range of IT Networks, Telecom and other applications. The GT Series is easy to install and service, and is designed for maximum site flexibility. With an attractively designed modern common tower and/or 19-inch rack mount cabinet, the UPS can adapt as network configurations adapt.

For communication, the GT Series is equipped with RS232 and contact interface as standard; a web-enabled SNMP card is available as an option. Operation from remote or unmanned sites is simple to coordinate with standard remote monitoring functionality. No load shutdown, automatic frequency detection, settable minimum start-up runtime and extended runtime availability with optional battery packs are additional features of the GT Series UPS.

Performance Features

- > Rack / Tower Mounting
- > Auto Sensing 50/60Hz
- > Extended Runtime Options Additional Runtime with 2U Plug & Play Battery Packs
- > Additional Communications SNMP Card Slot
- > Included Monitoring & Operational Software
- > Built-in RS232 Communication Port
- > Emergency Power Off Terminal Connections for EPO
- > User-Replaceable Hot Swappable Batteries
- > Standard 2 Year Warranty
- > Wide Input Voltage Window
- > Internal Auto and Manual Bypass

Applications

- > Computer and Data Centers
- > Call Centers
- > Telecommunications Equipment
- > Security Systems
- > Financial Institutions
- > Fixed and Mobile Voice and Data Transmission

Vertical Markets

- > Healthcare
- > Telecom
- > Education
- > Financial
- > Retail
- > Broadcasting
- > Entertainment

5kVA & 6kVA > Enter Tower / Rackmount

Digital Energy™ GT Series Uninterruptible Power Supply (UPS)







Technical Specifications - UL listed

Model	GT5000 RT	GT6000 RT	
Ratings			
Power ratings depending on input voltage 100V / 200V: 110V / 220V: 115V / 230V: 120V / 208V: 120V / 240V: 127V / 220V: Input thermal circuit breaker (A) Internal input fuse 250V, slow (A)	4000 / 3400 4500 / 3800 5000 / 4000 4800 / 4200 5000 / 4200 4800 / 4200	VA / W 4800 / 3400 5400 / 3800 6000 / 4200 5200 / 4200 6000 / 4200 5200 / 4200 0	
Input converter			
AC input voltage AC input voltage range	100/(173-200), 110/(19	120 / 208 V 90-220), 115/(198-230)), 127/(220) V	
Input current waveform Input current (A) at nominal input voltage Input power factor Input frequency range Input phase (L1 to L2) Inrush current	sine wave 20 > 0.97 40 - 70 Hz 120° / 180° / 240° ±10° 40		
Output converter			
AC output voltage AC output voltage tolerance Output frequency Output frequency range Output waveform	$50 / 60 Hz$, a nominal $\pm 5\%$ with r	L1-L2±5% uto selection mains synchronizing wave	
Harmonic distortion		r load, < 5% with or full load	
Power factor at nominal input voltage Crest factor (peak to RMS current) Capacity appliance outlets	0.87 ≤ 3	0.8 3:1 rminal Block	
Bypass			
AC input voltage range Frequency tracking rate Frequency tracking range Typical transfer time, msec	1H ± 5% of selec	ed output voltage z/s ted frequency O	

Model	GT5000 RT	GT6000 RT		
Overload capability				
Overload behavior during battery operation Overload behavior during bypass operation	130% for 10 seconds 200% for 2 seconds depends on rating of thermal circuit breaker (TCB) 125% of TCB value for 200 seconds 200% of TCB value for 10 seconds 300% of TCB value for 4 seconds			
Batteries (ratings given for 25°C)				
Nominal voltage (Vdc) Qty/ Ah (in battery kit and battery ext. pack) Type Recharge current Battery recharge time	14 12pcs REW45: 17	/ 8Ah -12 FR		
(batt. discharged at 100% load)	6 hours for 90	0% capacity		
General				
Weight UPS Dimensions UPS (hxwxd) Weight battery pack Dimensions battery pack Enclosure / protection Mounting	30.3 Kg ¹ 176x430x592 mm (43 Kg (9 87x430x592 mm (3 steel-plas Rackmount or Tower n	6.9x16.9x22.55 in) 4.7 lbs) .47x16.9x2255 in) tic / IP20		
Environment				
Safety Approval Electromagnetic compatibility	UL 1' EMI: FCC CFR47 Par IEC61000-4 RS: IEC61000-4-3, level level 4, Surge: IEC6 ANSI C62.41 (IEEE58 3) & B (Ir	rt 15, class A, ESD: 1-2, level 4 3, EFT: IEC61000-4-4, 1000-4-5, level 3 7) Category A (level		
Ambient temperature Audible noise at 3.3 ft. Max. relative humidity Color	0 to ++ < 55 dB(A), load and ter 90% (non-co Black - R/	nperature dependent ondensing)		



Modular PDU Plugs

	Outlets (NEMA)							Input (NEMA)						
Model	TB**	5-20	OR T L5-20R		20R	L5-30R		EN60320		L6-20R	L6-30R	L14-30R	TB**	L14-30R
16	L1-	L1-N-G	L2-N-G	L1-N-G	L2-N-G	L1-N-G	L2-N-G	L1-N-G	L2-N-G	L1-L2-G	L1-L2-G	L1-N-L2-G	18	
GT PDU A 01*	1												1	
GT PDU A 02	1												1	
GT PDU A 03		2	2								1	1		1
GT PDU A 04		1	1							2				1
GT PDU A 05		2	2								2			1
GT PDU A 06								2	2					1
GT PDU A 07				2	2	1	1							1
GT PDU A 08				2	2						2			1
GT PDU A 09										4				1

^{*:} No 3 pole 6 ms maximum transfer time manual bypass. **: TB = Terminal Block

Battery Run Times

Model	Load	Internal Batteries	1 Battery Pack	2 Battery Packs	3 Battery Packs
	10%	75 min	156 min	235 min	313 min
GT5000 RT / GT6000 RT	25%	31 min	75 min	115 min	155 min
	50%	14 min	34 min	58 min	82 min
	75%	8 min	22 min	35 min	50 min
	100%	5 min	14 min	25 min	36 min



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