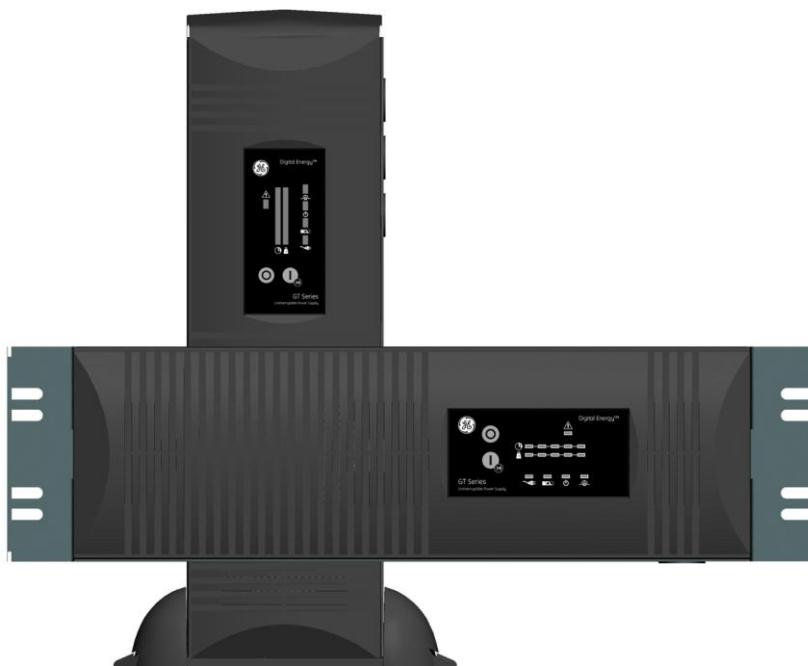


GE  
Digital Energy

# Technical data sheets

Digital Energy™ Uninterruptible Power Supply

GT Series UPS  
6 - 10 kVA



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CE

Certified  
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**ISO 9001**

## General data

Topology	VFI, on line double conversion	
Nominal output rating (kVA/kW)	6000/4200	10000/7000
Overall efficiency at nominal load (%)	92%	
Heat dissipation at nominal load (W)	365	609
Cooling air (m <sup>3</sup> /s)	100	
Audible noise level (dB(A))	<55 (load and temperature dependent)	
Operating temperature range (°C)	0-40 (15-25 recommended for batteries)	
Relative humidity	90% (non condensing)	
Protection degree	IP20	
Safety	IEC/EN 62040-1-1	
EMC	IEC/EN 62040-2 Category C2 (Class A)	
Surge capacity	IEC/EN 61000-4-5, Level 4, 2kV line-line / 4kV line-earth	
Electrostatic discharge immunity	IEC/EN 61000-4-2, Level 4, 8kV contact / 15kV air discharge	
Colour	RAL 9005 (black)	

## Input converter

Nominal AC input voltage (V)	230	
Input Voltage Range (V)	175-276 (84-276 for load <30%)	
Minimum Start-up voltage (V)	176	
Input Frequency Range (Hz)	40-70	
Power factor	>0.97	
Nominal input current (A)	20.6	34.6
Inrush current (A)	60	
Input current waveform	sinusoidal	
THDi (%)	<5 (full load)	

## Output converter (inverter)

Power factor	0.7	
Nominal AC output voltage (V)	220 / 230 / 240 (selectable)	
Output voltage tolerance (%)	± 2% (static)	
Recovery Time (ms)	50	
Output frequency (Hz)	50 / 60 (selectable)	
Output frequency tolerance (%)	± 0.1 Hz (on battery)	
Output current waveform	sinusoidal	
THDu (%)	< 3% with linear load, < 5% with non linear full load	
Crest factor handling	≤ 3:1	
Overload capability	125% 1min, 150% 10 s, >150% <2s	
Short circuit capability (A)	100 ms	100 ms

## Bypass

Bypass voltage range (V)	± 10% nominal	
Frequency slew rate (Hz/s)	1	
Frequency tracking range	± 5% selected	
Transfer Time (ms)	0.5 typ	
Overload capacity	Depending on thermal circuit breaker characteristic but typically: 125% TCB size for 50-700s 200%TCB size for 10-150s 300% TCB size for 3-40s	

## Batteries

Battery type*	sealed lead acid maintenance free, 5 years lifetime	
Capacity (Ah)*	8	
Nr. of blocks	20	
Standard backup time at nominal loads (mins)	12	5
End of discharging voltage (Vdc/cell)	1.66	
Recharging current (Adc)	1.2	
Recharge Time	5 hrs to 90% of capacity	

## Controls, signals and alarms

### Front

On / Off Push – buttons  
Buzzer (resettable)  
Alarm led (red)  
Runtime led bar  
Load level led bar

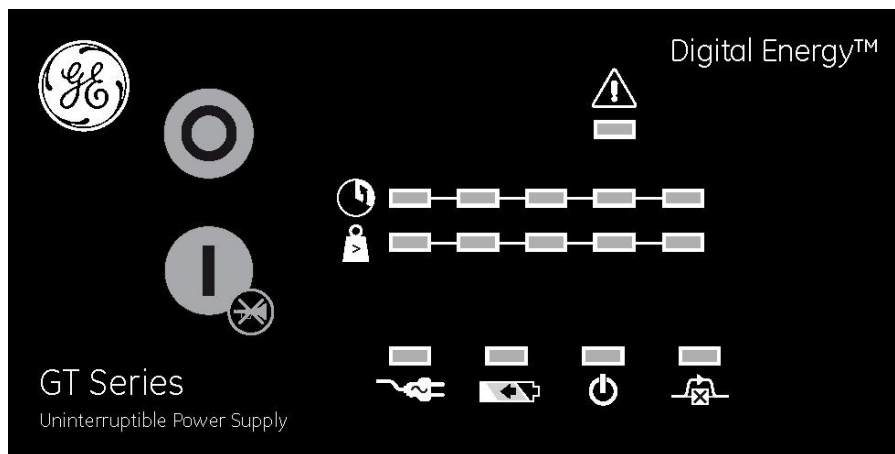
4 Status led:  
- Mains present  
- On battery  
- UPS on  
- On bypass

### Rear

Input circuit breaker  
Output circuit breaker  
Input/Output terminals  
Output socket(s)  
DC connector for batteries  
RS232 communication port  
Parallel Board  
Remote Power Off Contact (RPO)  
SNMP Card\* plug

*\*option*

### Front panel



## Optional features

### SNMP interface card

An SNMP card may be inserted into the proper plug in order to allow UPS data communication over an Ethernet Network or Web.

### Battery modules – extended runtime

Additional battery modules (up to 2) may be connected in parallel in order to achieve a longer runtime. Every battery module is equipped with its DC cabling and it makes connection between modules very easy and simple.

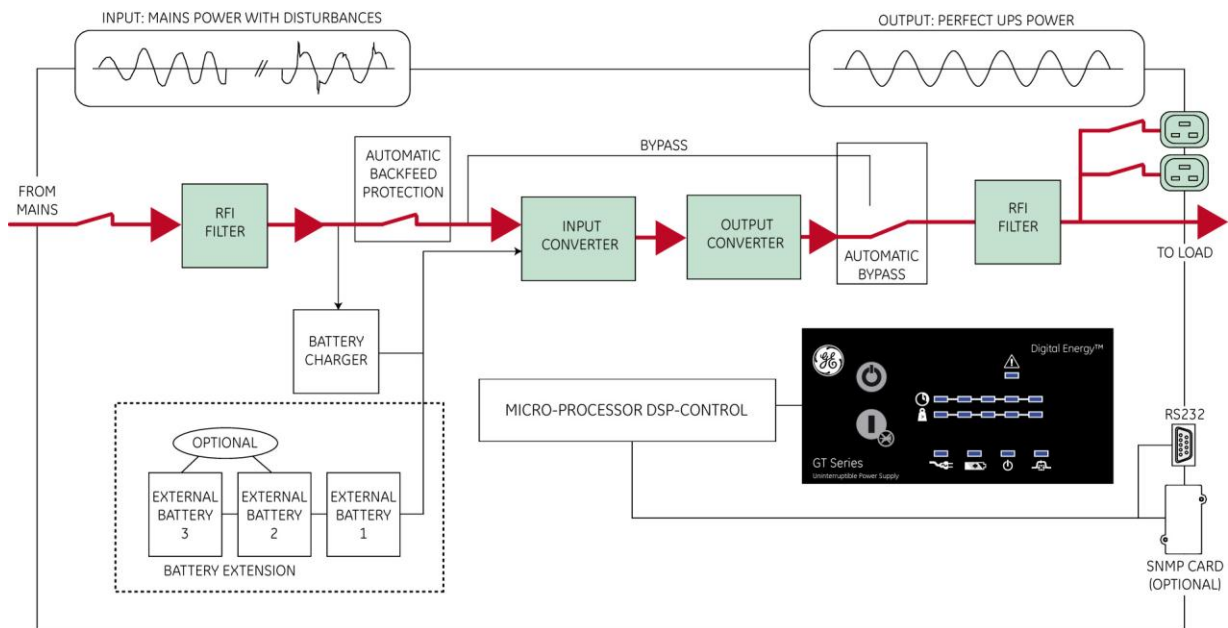
Increasing of total battery capacity will correspond to a longer recharging time.

## Dimensions and battery

UPS Model (kVA)	Backup time (min.)	Total capacity (Ah)	Nr. of extra battery cabinets	Battery cabinet 8 Ah	UPS cabinet		
					Dimensions	UPS weight (*)	Shipping weight (*)
GT 6000	12	8	1	Dimension (HxWxD): 130(3U) x 410 x 660  Shipping dimension (HxWxD): 305 x 575 x 865  Weight (kg): 66.5  Shipping weight (kg): 74	Dimension (HxWxD): 130(3U) x 410 x 660	23.5	31
	29	16	2				
	47	24	3				
GT 10000	5	8	1		Shipping dimension (HxWxD): 305 x 575 x 865	26.5	34
	15	16	2				
	26	24	3				

(\*): Standard backup time and capacity

## UPS block diagram, protections and cable sections



Recommended external fusing of input wiring		Cable sections input and output recommended by European standards / in ( ) SEV Alternatively, local standards to be respected	
UPS Model	Mains / Bypass input	CABLE SECTIONS	
		mm <sup>2</sup>	AWG
GT 6000	25A gL/gG or class "C" MCB	4	11
GT 10000	40A gL/gG or class "C" MCB	6	9



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