

GTM-10/20 Series

10~200kVA Modular UPS



Power Range

10~200kVA



Operation

3P/3P,3P/1P,1P/1P,Online double conversion



Application

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- 7 inch touch LCD, with IoT functions.
- Supports 3P/1P,1P/1P flexibility configuration.
- High reliability and environmental adaptability,with protection of components level.
- No disassembly, direct mounted in 19 inch rack, or stand alone.
- Extreme high power density, 20kW in 2U, friendly for space and maintenance.
- Supports supercharging, satisfy high-capacity lithium batteries.
- High charging capacity, fast battery recovery.
- Energy storage mode & parallel supply support for weak grids.



Power Module Diagram



Rack Installation Diagram
(for main units up to 180kVA)

Model		GTM020/10	GTM040/10	GTM060/10
Rate Power		20kVA	40kVA	60kVA
Main input	Input	3P5W (3P+N+PE)		
	Rate Voltage	380/400/415VAC(L-L) 220/230/240VAC(L-N)		
	Rate Freq.	50/60Hz		
	Input PF	>0.99		
	Current distortion	THDi<3%(100% Linear load)		
	Voltage range	304~478VAC(L-L)full load; 304~228VAC (L-L) power derate from 100% to 50%		
	Freq. range	40-70Hz		
Rate voltage		3 Wires: ± 240 VDC(20-50 PCS selceted); 2 Wires(optional): 480VDC(20-50 PCS selceted)		
Battery	Charging capacity	50%*Pout (Limited by input current)		
	Charging accuracy	$\pm 1\%$		
Bypass	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)		
	Voltage range	Range: -40%~ +25%, Settable, default -20%~+15%		
	Overload	<110%, long time operation;110%< load<125%, 10 mins 125%<load<150%,1 min		
Inverter	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)		
	Rate Freq.	50/60Hz		
	Output PF	1		
	Voltage accuracy	$\pm 1.0\%$		
	Output THDu	<1%(linear load), <5% (non-linear load according to IEC 62040-3)		
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms		
	Frequency accuracy	0.1%		
	Synchronize window	Settable, ± 0.5 Hz- ± 5 Hz, default ± 3 Hz		
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S		
	Phase Accuracy	$120^\circ \pm 0.5^\circ$		
Efficiency-normal mode		$\geq 96.5\%$		
Display		LED + 7 inch touch LCD		
Certification- Safety		IEC62040-1, IEC60950-1		
Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4(EFT); IEC61000-4-5 (Surge)		
System	IP degree	IP20		
	Configuration	USB, RS232, RS485, Dry contact, Cold start, Air filter		
	Option	SNMP card, AS400 card, Parallel kit, APP / WiFi / Bluetooth		
	Environment	0-40°C (operation); -25°C~70°C (storage); 0-95% (Humidity, non-condensing)		
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load		
Dimention (W*D*H)mm (default)	Cabinet dimention	442*711*307(7U)	442*710*485 (11U)	442*661*906 (20U)
	MAX dimention	442*751*397	442*751*575	442*841*976
Four-switch cabinet (optional)	Cabinet dimention	442*710*396 (9U)	/	442*661*1239 (28U)
	MAX dimention	442*751*486		442*841*1331
Power Module W*D*H(mm)		400*495*86 (2U)		
Weight (kg)	Standard Cabinet	39	52	88
	Four-switch Cabinet	46	/	116
	Power Module	12.6		

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Model		GTM040/20	GTM080/20	GTM120/20	GTM200/20
Rate Power		40kVA/40kW	80kVA/80kW	120kVA/120kW	200kVA/200kW
Main input	Input	3P5W (3P+N+PE)			
	Rate Voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)			
	Rate Freq.	50/60Hz			
	Input PF	>0.99			
	Current distortion	THDi<3%(100% Linear load)			
	Voltage range	304~478VAC(L-L)full load; 304~228VAC (L-L) power derate from 100% to 50%			
	Freq. range	40-70Hz			
Battery	Rate voltage	3 Wires: ± 240 VDC(20-50 PCS selceted); 2 Wires(optional): 480VDC(20-50 PCS selceted)			
	Charging capacity	50%*Pout (Limited by input current)			
	Charging accuracy	$\pm 1\%$			
Bypass	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)			
	Voltage range	Range: -40%~ +25%, Settable, default -20%~ +15%			
	Overload	<110%, long time operation;110%< load<125%, 10 mins 125%<load<150%,1 min			
Inverter	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)			
	Rate Freq.	50/60Hz			
	Output PF	1			
	Voltage accuracy	$\pm 1.0\%$			
	Output THDu	<1%(linear load), <5% (non-linear load according to IEC 62040-3)			
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms			
	Frequency accuracy	0.1%			
	Synchronize window	Settable, ± 0.5 Hz- ± 5 Hz, default ± 3 Hz			
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S			
Phase Accuracy	$120^\circ \pm 0.5^\circ$				
System	Efficiency-normal mode	$\geq 96.5\%$			
	Display	LCD+LED + 7 inch touch LCD			LCD+LED + 10 inch touch LCD
	Certification- Safety	IEC62040-1, IEC60950-1			
	Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4(EFT); IEC61000-4-5 (Surge)			
	IP degree	IP20			
	Configuration	USB, RS232, RS485, Dry contact, Cold start, Air filter			
	Option	SNMP card, AS400 card, Parallel kit, APP / WiFi / Bluetooth			
	Environment	0-40°C (operation); -25°C~70°C (storage); 0-95% (Humidity, non-condensing)			
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load			
Dimention (W*D*H)mm (default)	Cabinet dimention	442*710*307(7U)	442*661*705 (16U)	442*661*906 (20U)	600*850*2000
	MAX dimention	442*751*397	442*841*797	442*841*976	
Four-switch cabinet (optional)	Cabinet dimention	442*710*396 (9U)	/	442*661*1239 (28U)	600*850*2000
	MAX dimention	442*751*486		442*841*1331	
Power Module W*D*H(mm)		400*495*86 (2U)			
Weight (kg)	Standard Cabinet	39	64	88	143
	Four-switch Cabinet	46	/	116	200
	Power Module	13.8			

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