

GTM-10 ESM Series

10~60kVA Energy Storage Modular UPS



Introduction

10~60kVA



Operation

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



Application

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



Characteristics

- Full Load Full Charge
It can charge the UPS at full power with full load to improve the availability of the battery system;
- Peak reduction and valley filling
Supports intelligent switching of charging and discharging time periods, low storage and high discharge, saving users' electricity expenses;
- Battery without centerline design, supporting compatible lithium-ion system is more friendly;
- Utility and battery can be jointly supplied, more flexible and reliable energy management program;
- Electricity metering: energy storage UPS intelligent statistics on daily charging/discharging volume, cumulative charging/discharging volume, charging cost, discharging revenue, daily net revenue, cumulative revenue and other data.



Model	GTM020/10-ES	GTM040/10-ES	GTM060/10-ES	
Rate Power	20kVA/20kW	40kVA/40kW	60kVA/60kW	
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	240~614.4 VDC(No Neutral required)		
	Charging capacity	Maximym 100%*Pout		
Bypass	Rate voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
	Voltage range	Settable, Default -20%~+15%,Upper Limits:+10%,+15%,+20%,+25%;Lower Limits:-10%, -15% , -20% , -30%, -40%.		
	Overload	110%, long time operation; 125%<load<150%,1 min;	110%<load<125%,5 mins; >150%,1 second.	
Inverter	Rate voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
	Rate Freq.	50/60Hz		
	Output PF	1		
	Voltage accuracy	+1.0%		
	Load response	<5%(20% -80% -20% step load)		
	Recovery time	<20ms(0% -100% -0% step load)		
	Output THDu	<1%(linear load),<5% (non-linear load)		
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms		
	Freguency accuracy	0.1%		
	Synchronize window	Settable, ±0.5Hz-±5Hz, default ±3Hz		
	Slew rate	Settable,0.5Hz/S-3Hz/S, default 0.5Hz/S		
	Crest factor	3:1		
	Phase Accuracy	120° ±0.5°		
	System	Efficiency	≥96.5%	
Display		LED + 7 inch touch LCD		
Certification-Safety		IEC62040-1,IEC60950-1		
Certification-EMC		IEC62040-2;IEC61000-42(ESD);IEC61000-4-3(RS);IEC61000-4 4(EFT);IEC61000-4-5(Surge)		
IP degree		IP20		
Configuration		USB, RS232, RS485, Dry contact, Cold start		
Option		SNMP card, AS400 card, Parallel kit, LBS, APP/WiFi/Bluetooth		
Environment		0-40℃ (operation); -25℃ -70℃ (storage); 0-95%(Humidity, non-condensing)		
Dimention (W*D*H)mm	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load		
	cabinet	442*710*307(7U)	442*661*705(16U)	442*661*906(20U)
	max	442*751*397	442*841*797	442*841*976
	power module	400*495*86(2U)		

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