

# Online UPS 3 Phase Out

## GTM Series 60/90/120KVA 3:3 Phase Modular Technology

### Application:

Server, Bank, Industry Equipments, IT Equipments,  
Communication System & Others Networking Equipments



### Features:

- True online, double conversion, pure sine wave technology
- DSP-controlled Microprocessor based modular redundancy design with IGBT based Rectifier and Inverter
- Parallel redundancy up to 4 units with extendable racks
- Wide input voltage and frequency windows with auto on function
- Easy to operate LCD display
- High power density up to 90/120KVA for space saving
- Unity power factor and low input distortion
- Output power factor at 0.9 standard / unity optional
- ECO mode for energy saving
- Common or separate battery bank Configurable
- Programmable no of battery 32 Nos. to 40 Nos., (384-480V DC)
- Intelligent charge mode with smart charge current adjustment
- Versatile communication interfaces provided for different applications
- Programmable control and monitoring software
- Cold start operation
- Line filtering and inrush protection
- Isolation Transformer Compatible



Control Panel



Unique Power Modular Technology	
Capacity	Module
30KVA	30KVA x 01
60KVA	30KVA x 02
90KVA	30KVA x 03
120KVA	40KVA x 03

\* 4 Racks can be paralleled for redundancy & capacity extension.

## ▶ Technical Specifications of GTM Series 60-120KVA

MODEL	GTM3360L32	GTM3390L32	GTM33120L32
Capacity (KVA)	60	90	120
<b>INPUT</b>			
Nominal Voltage	380V / 400V / 415V AC (3Ph+N+PE)		
Voltage Range	+25% - 35%		
Frequency Range	50 / 60 Hz ± 20% Auto Sensing		
Power Factor	≥ 0.99		
Harmonic Distortion (THDi)	2% (Non-Linear Load)		
Bypass Range	Voltage	35% (Optional -20%, -30%)	
	Frequency	± 10% (Configurable)	
Generator Input	Support		
<b>OUTPUT</b>			
Output Voltage	380V / 400V / 415V AC (3Ph+N+PE)		
Voltage Regulation	± 1%		
Power Factor	0.9 Standard / Unity Optional		
Frequency	Auto Sensing 50 / 60 Hz ± 1~10% Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz Battery Mode		
Crest Factor	3:1		
Harmonic Distortion (THDv)	≤ 2% with Linear Load; ≤ 5% with Non-Linear Load		
Overload	≥ 125% for 10 Min, ≥ 150% for 1 Min, ≤ 150% for 200 ms		
Efficiency	Up to 95% Dual Conversion Mode, 99% ECO Mode		
<b>BATTERY</b>			
Battery Voltage	Standard Unit: ± 216V DC; Unit configurable Voltage: ± 192V / ± 204V / ± 216V / ± 228V / ± 240V DC		
<b>SYSTEM FEATURES</b>			
Transfer Time	Zero		
Self-Diagnostics / EPO	Upon Power On and Software Control / Inbuilt		
IP Protection	IP 20		
Alarm / Protection	Line Failure, Battery Low, Overload, System Fault and Short Circuit		
Display	LED	Line Mode, Bypass Mode, Battery Low, Overload and UPS Fault Codes	
	LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load %, Battery Voltage & Temperature, Output W/VA	
Parallel	Inbuilt		
<b>ENVIRONMENT</b>			
Temperature	Operating: 0~45°C, Storage: -10°C ~ 55°C		
Humidity / Altitude	0~95% RH Non-condensing / <1500 M		
Noise	Low Audible Noise Level		
<b>STANDARDS</b>			
Quality	ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, RoHS		
Safety	IEC/EN62040-1		
EMC / Performance	IEC/EN62040-2; IEC/EN62040-3, Complying to CE		
<b>PHYSICAL</b>			
Dimension WxDxH (mm)	600x780x1200		
Net Weight (Kg)	158	190	196
<b>COMMUNICATION INTERFACE</b>			
Standard	RS-232		
Optional	SNMP / ModBus / Dry Contact / USB / RS-485		
Monitoring Software	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000		

\*Specifications are subject to change without prior notice.



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