

## GTMX Series

(40~480 KVA)

3:3 Phase

### Application:

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



Control Panel



## GENERAL FEATURES

- DSP-controlled modular redundancy technology
- Parallel redundancy up to 4 units
- Wide input voltage and frequency windows
- Easy to operate LCD display
- Unity power factor and low input distortion
- Output power factor at 0.9
- ECO mode for energy saving
- Common or separate battery bank
- Programmable no of battery 32 Nos. to 40 Nos., 384-480V DC
- Intelligent charge mode with smart charge current adjustment
- Built in isolation transformer
- Castor wheels on UPS
- SNMP/Mod Bus protocol supported
- Versatile communication interfaces provided for different applications
- Superior overload capability
- Programmable control and monitoring software
- Can be configured to single phase output



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(40~480 KVA)

## ▶ Technical Specifications

| Capacity (KVA)             | 40KVA   | 60KVA   | 90KVA | 120KVA       | 160KVA | 200KVA       | 320KVA       | 400KVA        | 480KVA |
|----------------------------|---|---|-------|--------------|--------|--------------|--------------|---------------|--------|
| <b>INPUT</b>               |   |   |       |              |        |              |              |               |        |
| Nominal voltage            | 380/400/415Vac, (3Ph+N+PE)  |   |       |              |        |              |              |               |        |
| Operating voltage range    | 208 ~ 478Vac  |   |       |              |        |              |              |               |        |
| Operating frequency range  | 40Hz-70Hz   |   |       |              |        |              |              |               |        |
| Power factor               | ≥ 0.99  |   |       |              |        |              |              |               |        |
| Harmonic Distortion (THDi) | 2% (100% nonlinear load)  |   |       |              |        |              |              |               |        |
| Bypass voltage range       | Max.voltage: +15% (optional +5%,+10%,+25% ); Min. voltage: -45% (optional -20%,-30%)<br>Frequency protection range: ±10%  |   |       |              |        |              |              |               |        |
| Generator input            | Support   |   |       |              |        |              |              |               |        |
| <b>OUTPUT</b>              |   |   |       |              |        |              |              |               |        |
| Output voltage             | 380/400/415Vac, (3Ph+N+PE)  |   |       |              |        |              |              |               |        |
| Voltage regulation         | ± 1%  |   |       |              |        |              |              |               |        |
| Power factor               | 0.9   |   |       |              |        |              |              |               |        |
| Output frequency           | 1.Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (optional)<br>2.Battery Mode: (50/60±0.2%)Hz                     |   |       |              |        |              |              |               |        |
| Crest factor               | 3 : 1   |   |       |              |        |              |              |               |        |
| Harmonic distortion (THDi) | ≤2% with linear load; ≤5% with non linear load  |   |       |              |        |              |              |               |        |
| Efficiency                 | > 95%   |   |       |              |        |              |              |               |        |
| <b>BATTERY</b>             |   |   |       |              |        |              |              |               |        |
| Battery voltage            | Programmable battery voltage from 384V DC (32 Nos.) to 480V DC (40 Nos.)  |   |       |              |        |              |              |               |        |
| <b>SYSTEM FEATURES</b>     |   |   |       |              |        |              |              |               |        |
| Transfer time              | Utility to Battery : 0ms; Utility to bypass : 0ms   |   |       |              |        |              |              |               |        |
| Overload                   | Line mode   | Load ≤110% : last 60min, ≤125% : last 10min, ≤150% : last 1min, ≥150% shut down UPS immediately |       |              |        |              |              |               |        |
|                            | Battery mode  | Load ≤110% : last 10min, ≤125% : last 1min, ≤150% : last 5S, ≥150% shut down UPS immediately    |       |              |        |              |              |               |        |
| Short Circuit              | Hold Whole System   |   |       |              |        |              |              |               |        |
| Overheat                   | Line Mode : Switch to Bypass; Backup Mode : Shut down UPS immediately   |   |       |              |        |              |              |               |        |
| Low battery voltage        | Alarm and Switch off  |   |       |              |        |              |              |               |        |
| Self-diagnostics           | Upon Power On and Software Control  |   |       |              |        |              |              |               |        |
| EPO (optional)             | Shut down UPS immediately   |   |       |              |        |              |              |               |        |
| Battery                    | Advanced Battery Management   |   |       |              |        |              |              |               |        |
| Noise Suppression          | Complies with EN62040-2   |   |       |              |        |              |              |               |        |
| Audible & Visual           | Line Failure, Battery Low, Overload, System Fault   |   |       |              |        |              |              |               |        |
| Status LED & LCD display   | Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  |   |       |              |        |              |              |               |        |
| Reading on the LCD display | Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage,<br>Battery Voltage & Inner Temperature |   |       |              |        |              |              |               |        |
| Communication interface    | RS232, RS485, Parallel, Intelligent slot, Relay card (optional), SNMP card (optional)                                     |   |       |              |        |              |              |               |        |
| <b>ENVIRONMENTAL</b>       |   |   |       |              |        |              |              |               |        |
| Operating temperature      | 0°C ~ 40°C  |   |       |              |        |              |              |               |        |
| Storage temperature        | -25°C ~ 55°C  |   |       |              |        |              |              |               |        |
| Humidity range             | 0 ~ 95% (non condensing)  |   |       |              |        |              |              |               |        |
| Altitude                   | < 1500m   |   |       |              |        |              |              |               |        |
| Noise level                | < 55dB  |   |       |              |        |              |              |               |        |
| <b>PHYSICAL</b>            |   |   |       |              |        |              |              |               |        |
| Dimension W×D×H (mm)       | 600x780x1200  |   |       | 600x780x1600 |        | 600x850x1600 | 600x850x2000 | 1200x850x2000 |        |
| Net weight (kg)            | 150   | 158   | 190   | 198          | 200    | 230          | 250          | 280           | 320    |
| <b>STANDARDS</b>           |   |   |       |              |        |              |              |               |        |
| Safety                     | IEC/EN62040-1, IEC/EN60950-1  |   |       |              |        |              |              |               |        |
| EMC                        | IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8                         |   |       |              |        |              |              |               |        |

Specifications are subject to change without prior notice.



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