

GTS-L Low Frequency Online Series

6~30kVA UPS



Introduction

6~30kVA



Operation

3P/1P, Online double conversion



Application

Widely used in rail transportation, airport and aviation, healthcare, oil fields, military, radar stations, power systems, heavy industrial sites, manufacturing production lines, and other fields.



Characteristics

- Advanced rectification and IGBT inverter control with online double-conversion topology for superior performance.
- Wide input voltage and frequency range, ensuring strong grid adaptability.
- Built-in output isolation transformer reduces neutral-to-ground voltage and load harmonics impact.
- Excellent load adaptability with strong overload and short-circuit capability for stable operation.
- Redundant control power design ensures high reliability and availability.
- Intelligent battery management with automatic maintenance extends battery life.
- Independent cooling system with multi-level protection for harsh environments.
- Supports dual or single mains input for enhanced power security.
- User-friendly HMI with color touchscreen for easy operation.
- Independent battery interface prevents wiring errors and significantly reduces the risk of misoperation.
- Standard self-locking swivel casters for convenient movement and secure installation.

Model	GTSL06	GTSL10	GTSL15	GTSL20	GTSL30
Rate Power	6kVA	10kVA	15kVA	20kVA	30kVA
Type	Double Conversion Online				
Structure	Output Isolation Transformer Design				
Full Load Efficiency	>85%				
Noise (2 meter)	<50dB				
Temperature	-10~40°C				
Storage Temperature	-25~60°C (excluding internal battery)				
System	Humidity <95% non-condensing				
Redundant Parallel	Supported				
Protection	Overload, Short Circuit, Overtemperature, Mains Overvoltage/Undervoltage, Battery Overvoltage/Undervoltage				
DC Start Function	Supported				
Protection Level	IP20				
Cooling System	Speed-Controlled Fan Air Cooling				
Altitude	<1000m (no derating)				
Input	Input Voltage 380VAC+N+PE Three-phase				
Voltage Range	286-475VAC				
Frequency Range	50Hz ±5%				
Group Start	>20 seconds				
Output	Output Voltage 220VAC				
Voltage Stability	220VAC ±1% (static load), 220VAC ±2% (100-0% load step)				
Frequency	50Hz ±0.1% (battery operation)				
THD	<1% (linear full load), <3% (100% nonlinear load)				
Tracking Range	46-54Hz				
Waveform	Pure Sine Wave				
Overload	>125% load: can operate for >10 minutes; >150% load: can operate for >1 minute then transfers to bypass and shuts down				
Crest Factor	3:1				
Bypass	Static Transfer Time 0ms (Static Switch Phase-lock Control Technology)				
Overload Capacity	200%~5 mins; 1000%~10s				
Frequency Range	±1Hz, ±2Hz, ±3Hz Adjustable				
Manual Maintenance	Supported				
Alarm	Utility Power Abnormal/Fault, Battery Voltage Low/High, Overload, UPS Fault, Short Circuit, etc.				
Mute	Automatic				
Battery	Type Sealed Lead Acid Maintenance-Free Battery				
Voltage	384VDC (192VDC/16 cells customizable for 10-20kVA models)				
Number of Cells per Group	32 cells (32-29 cells optional)				
Charging Current	Long-term Charging 5A				
Low Battery Voltage	Shutdown Protection				
Communication	Standard RS232/USB/EPO; SNMP/485/Dry Contact (Optional)				
Dimension (W*D*H) mm	220*610*715 (with wheels)	310*712*820 (with wheels)			
Weight(kg)	63	83	98	120	138

Statement: The products will continue to be innovative and optimized, which may lead to asynchronous updates of the actual product and promotional materials. Therefore, this document is for reference only and does not constitute any offer or commitment.