

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
System	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)				
	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 >1minute 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	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

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