

GT-CS125R Series Energy Storage Inverter



Power range

125kVA



Operation

Three-Phase Four-Wire (AC Side)



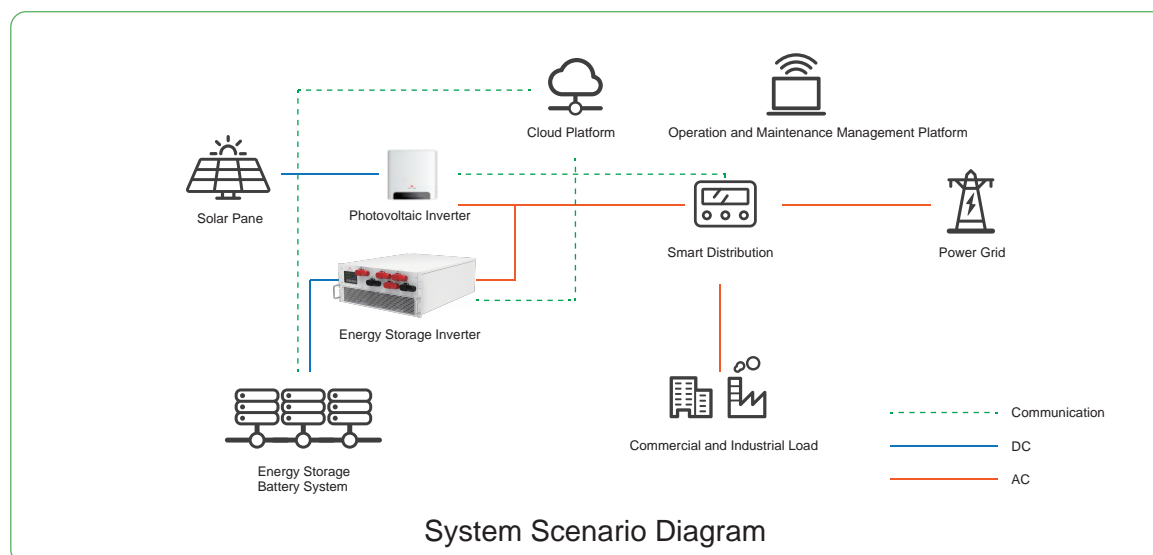
Applications

- Suitable for small to medium-sized commercial and industrial energy storage applications.
- Utilizes time-of-use pricing to optimize charging and discharging times.
- Helps reduce electricity costs.



Characteristics

- Flexible configuration, wide DC voltage range, compatible with air/liquid-cooled battery systems and various installations.
- Intelligent peak shaving, valley filling, and constant power, current, and voltage control.
- Reliable, modular design, easy to install and maintain; 99% system uptime, high conversion efficiency.
- Grid-friendly, three-phase four-wire, off-grid compatible, fast response (<10ms).



Model	GT-CS125R
AC Parameters	
Rated AC Power	125 kVA
Wiring Method	Three-Phase Four-Wire
AC Overload Capability	137.5 kVA
Allowable Grid Voltage	380/400 (-15% to +15%) Vac
Allowable Grid Frequency	50/60 (-2.5% to +2.5%) Hz
Total Current Harmonic Distortion Rate	≤ 3%
Power Factor	0.99 / -1 - 1
DC Parameters	
Maximum DC Power	137.5 kW
DC Voltage Range	600-1000 (650-1000 at full load) VDC
Maximum DC Current	212 A
Voltage Regulation Accuracy	≤ ±1%
Current Regulation Accuracy	≤ ±1%
System Parameters	
Maximum Conversion Efficiency	99%
Dimensions (W*H*D)	520 * 220 * 680 mm
Weight	75 kg
Noise	< 80 dB
Protection Level	IP20
Allowable Ambient Temperature	-20 to 60°C (derating above 50°C)
Cooling Method	Air Cooling
Allowable Relative Humidity	0-95% (no condensation)
Allowable Altitude	3000 m (derating above 3000 m)
Communication Parameters	
Communication Interface	RS485, Ethernet, CAN
Communication Protocol	Modbus TCP/RTU, CAN 2.0
BMS Integration	Supported

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