

GT-SH Series Single-Phase Inverter

Off-grid Energy Storage Inverter



Power range

3~6kW



Operation

Single-phase 220V/230V (AC)



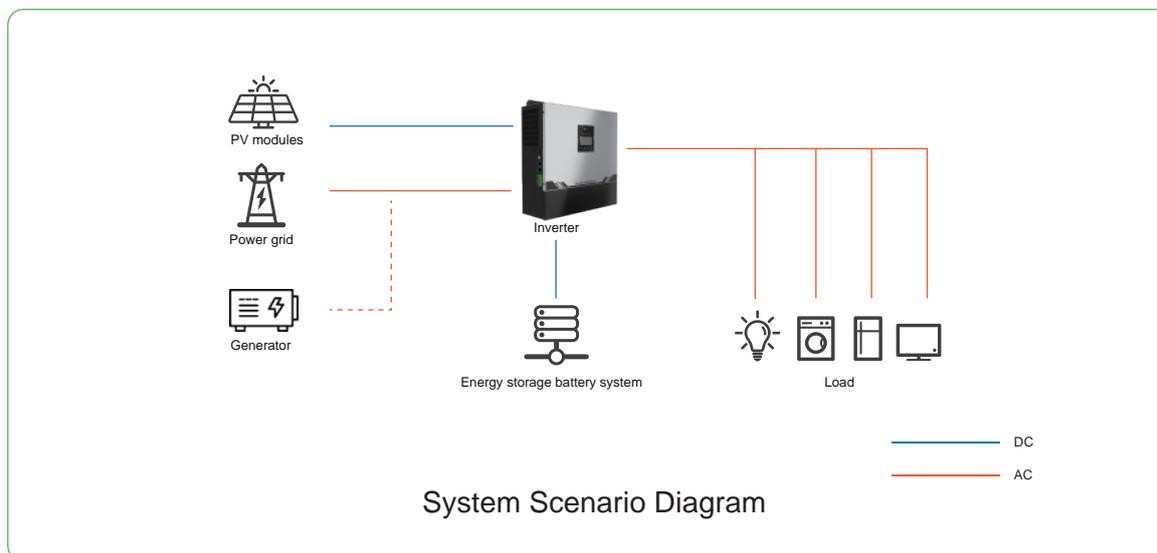
Applications

- Ideal for home energy storage, leveraging peak/off-peak pricing to save on electricity costs.
- Perfect for residential rooftop PV systems.
- Ensures power security and independence during grid instability.



Characteristics

- Built-in MPPT solar charge controller with wide PV input voltage range.
- Pure sine wave output, intelligent LCD settings (operating mode, charging current, charging voltage, battery type, etc.).
- Continuous power supply combining solar, grid, and battery, with overload, short circuit, and deep discharge protection.
- Supports USB, RS485 monitoring, as well as optional WiFi, Bluetooth, 4G, parallel kit, generator switching unit, and communication with lithium batteries (CAN or RS485 port).



Model	GT-SHE03-48H	GT-SHE03.6-48H	GT-SHE05-48H	GT-SHE06-48H
AC Mode				
Rated Input Voltage	220/230VAC			
Input Voltage Range	170-280VAC (for PCs); 90-280VAC (for home appliances)			
Frequency	50Hz/60Hz (auto detection)			
Frequency Range	45-55Hz +0.2Hz (50Hz);55-65Hz +0.2Hz (60Hz)			
Efficiency	Circuit breaker			
Overload / Short Circuit Protection Efficiency	≥94%			
L/N Reverse	10ms (typical)			
Connection Protection	Supported			
Maximum Bypass Overload Current Rating	20A		40A	
Inverter Mode				
Output Voltage Waveform	Pure sine wave			
Parallel Capability	Parallel capable, up to 6 units			
Rated Output Power (VA)	3000	3600	5000	6000
Rated Output Power (W)	3000	3600	5000	6000
Power Factor	1			
Rated Output Voltage (VAC)	230VAC (adjustable: 200/208/220/240VAC)			
Output Voltage Regulation	±2%			
Output Frequency Range	50Hz ± 0.3Hz / 60Hz ± 0.3Hz			
Maximum Efficiency	≥93%			
Overload Protection	105% load < 150%: fault and shut down after 10s; 150% load < 200%: fault and shut down after 5s; Short circuit: fault and shut down after 200ms			
Peak Power (VA)	6000	7200	10000	12000
Motor Load Capacity	2HP		4HP	5HP
Output Short Circuit Protection	Circuit breaker			
Bypass Circuit Breaker Rating	20A		40A	
Rated Battery Input Voltage	48VDC (minimum start-up voltage 44VDC)			
Battery Voltage Range	40-60VDC ±0.6VDC (Undervoltage alarm/shutdown voltage, overvoltage alarm/recovery, etc.adjustable via LCD)			
Power Saving Mode	Load < 40W			
AC Charging				
Battery Type	Lead-acid or lithium battery			
Maximum Charging Current	60A		80A	100A
Charging Voltage	40-60VDC			
Short Circuit Protection	Circuit breaker and fuse			
Circuit Breaker Rating	20A			
Overcharge Protection	Alarm and stop charging after 1 minute			
PV Charging				
Max. PV Open Circuit Voltage	500VDC			
PV Operating Voltage Range	120-500VDC			
MPPT Voltage Range	120-450VDC			
Battery Voltage Range	40-60VDC			
Max. PV Input Power	4200W		5000W	6000W
Max. PV Input Current	18A		22A	27A
PV Charging Current (adjustable)	0-60A		0-80A	0-100A
Charging Short Circuit Protection	Fuse			
Other				
Operating Temperature Range	-15°C to 50°C			
Storage Temperature Range	-25°C to 60°C			
Humidity Range	5% to 95% (with conformal coating protection)			
Noise Level	<60dB			
Protection Grade	IP20			
Altitude	≤2000m			
Cooling Method	Forced air cooling with variable speed fans			
Communication Interface	CAN / USB / RS485 (optional WiFi/4G) / Dry contacts / SNMP			
Dimensions (W*D*H) mm	387*371*125 mm			
Weight (kg)	9kg			
Certifications	CE, EMC (EN61000, C2)			

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