

GT-SH Series Single-Phase Inverter

for Home Energy Storage



Power range

10~60kVA



Operation

Single-phase 220V/230V (AC)



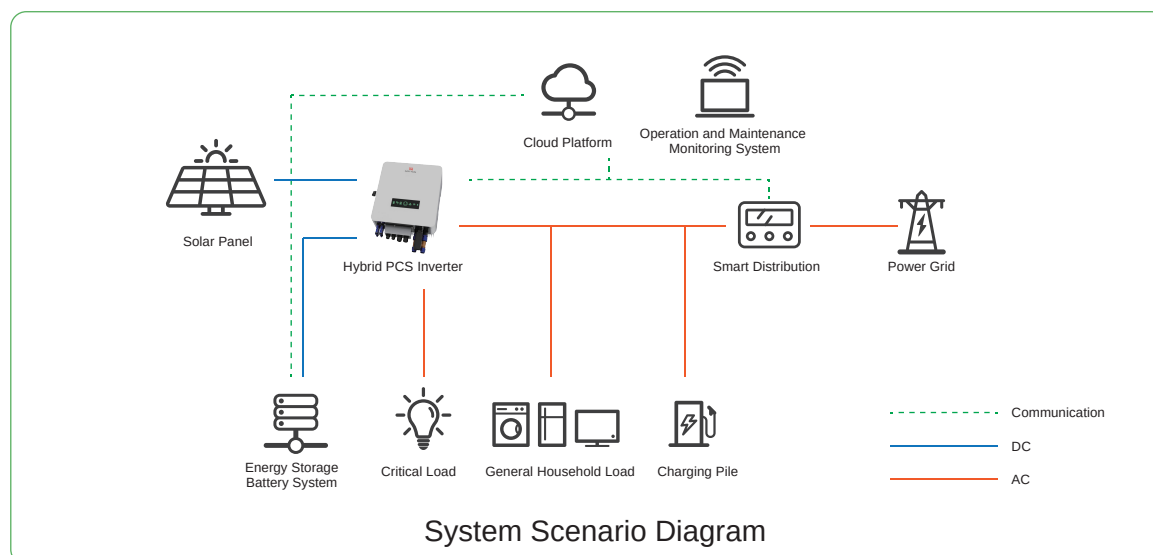
Applications

- 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

- All-in-one PV & energy storage system, supporting lead-acid & lithium batteries.
- Flexible configuration, reliable performance.
- IP66 dust/water resistance, -25~60°C operating range.
- Smart switching, < 10ms grid-off transition, ensures critical load uptime.
- Supports insulation, leakage, & grounding fault detection.
- Includes surge protection, reverse input, overvoltage/overcurrent/short-circuit protection, anti-islanding.



Model	GT-SH03	GT-SH03.6	GT-SH04.6	GT-SH05	GT-SH06
PV Input					
Maximum Input Power (W)	4800	5700	7000	8000	9600
Maximum Input Voltage (V)	600				
MPPT Voltage Range (V)	90-520				
Rated Input Voltage (V)	330				
Number of MPPTs/ Strings per MPPT	2/1,1				
Maximum Input Current per MPPT (A)	16,16				
Maximum Short-Circuit Current per MPPT (A)	24,24				
Battery Input					
Battery Type	Lead-acid, Lithium-ion				
Rated Voltage (V)	48				
Battery Voltage Range (V)	40-60				
Maximum Discharge Power (W)	3000	3800	4600	5000	6000
Maximum Charge/ Discharge Current (A)	50/60	100/75	100/95.8	100/104	100/120
Grid Parameters					
Rated Output Power (W)	3000	3600	4600	5000	6000
Maximum Apparent Output Power (VA)	3300	3960	5060	5500	6600
Rated Voltage (V)	220/230				
Output Frequency (Hz)	50/60Hz, ±5 Hz				
Maximum Output Current (A)	15	18	23	25	30
Rated Grid Current (A)	13.6	16.4	20.9	22.7	27.3
Input Voltage Range (V)	188-265				
Maximum Input Current (A)	20.4	24.6	31.3	34	41
THDi	<2%				
Off-Grid Parameters					
Rated Output Power (W)	3000	3600	4600	5000	6000
Maximum Output Power (VA)	4500	5400	6900	7500	9000
Maximum Output Current (A)	21.7-40				
Overload Capability	110% 10min; 125% 5min;125%-150% 1min;160%-200% 1s.				
THDu	2%(linear load)				
Switching Time (ms)	<10ms				
Efficiency					
Efficiency	Max Efficiency: >97.9%; European Efficiency: >97.2%				
PV Charging Efficiency	>97.5%				
Battery Charge/Discharge Efficiency	>95%				
General Parameters					
Operating Environment	Temperature: -25 to 60°C; Altitude: Derating above 45°C; 70%<4000m, derating above 2000m				
Display	LED + App + Bluetooth				
Communication Interface	CAN, RS485, Ethernet, Wi-Fi, GPRS (Optional)				
Certification Standards	VDE-A-N 4105/ VDE 0124,VDE 0126/ UTE C15/ VFR:2019,CEI0-21,C10/11, IEC 62116,IEC 61727,IEC 60068,IEC 61683,EN50583,EN50549, G98 or G99				

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