

GT-TH Series Three-Phase Inverter

for Home Energy Storage



Power range

5~12kW



Operation

Three-phase 380V/400V (AC)
3L+N+PE(AC)



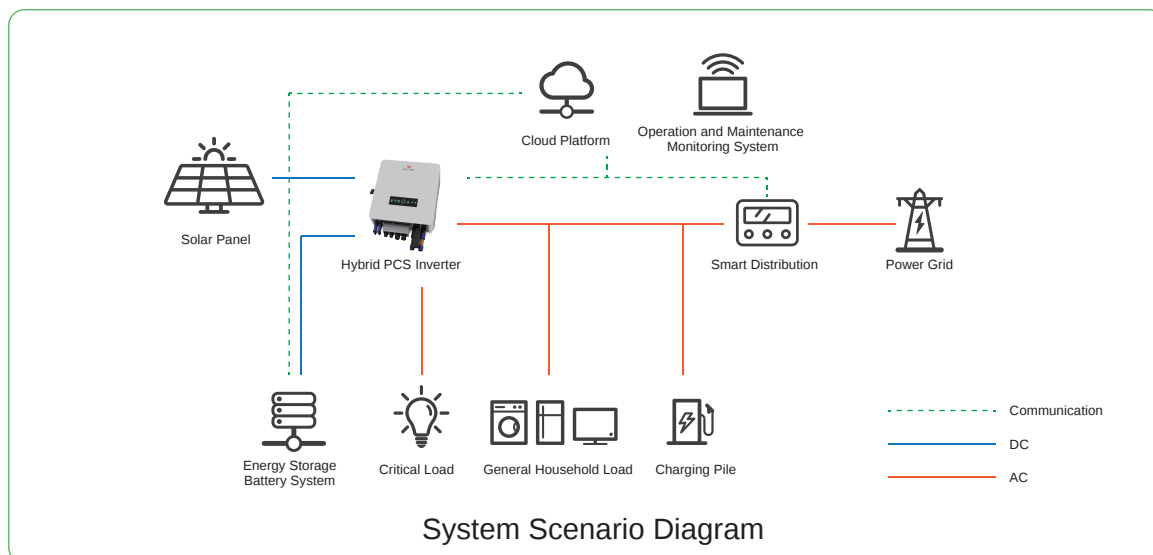
Applications

- 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-THH05	GT-THH06	GT-THH08	GT-THH10	GT-THH12
PV Input					
Maximum Input Power (W)	7500	9000	12000	15000	18000
Maximum Input Voltage (V)	1000				
MPPT Voltage Range (V)	200-850				
Rated Input Voltage (V)	600				
Number of MPPTs/ Strings per MPPT	2/1,1		2/1,2		
Maximum Input Current per MPPT (A)	16,16		16,32		
Maximum Short-Circuit Current per MPPT (A)	24,24/48				
Battery Input					
Battery Type	Lead-acid, Lithium-ion				
Battery Voltage Range (V)	120-600				
Maximum Discharge Power (W)	5000	6000	8000	10000	12000
Maximum Charge/ Discharge Current (A)	50A, below 6kW: 25A				
Grid Parameters					
Rated Output Power (W)	5000	6000	8000	10000	12000
Maximum Apparent Output Power (VA)	5500	6600	8800	11000	13200
Rated Voltage (V)	380/400, 3L+N+PE				
Output Frequency (Hz)	50/60Hz, ±5 Hz				
Maximum Output Current (A)	8.4/7.9	10/9.6	13.4/12.7	16.7/15.8	20/19.2
Rated Grid Current (A)	7.6/7.2	9.1/8.7	12.2/11.5	15.2/14.4	18.2/17.4
PF	>0.99 (0.8 lagging - 0.8 leading)				
Maximum Input Power (W)	7500	9000	12000	15000	18000
Maximum Input Current (A)	7.6/7.2	9.1/8.7	12.2/11.5	15.2/14.4	18.2/17.4
Off-Grid Parameters					
Rated Output Power (W)	5000	6000	8000	10000	12000
Maximum Output Power (VA)	7500	9000	12800	15000	18000
Rated Output Voltage (V)	380/400 , 3L+N+PE , 50/60Hz				
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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