

Three-phase Hybrid Inverter

Model: ME-GSE-T10K | ME-GSE-T15K



Proactive Power Safety Shield

- DC Arc Protection
- Leakage Protection
- SunSpec Rapid Shutdown
- Insulation Monitoring
- 24/7 Real-time Monitoring

Superior Performance

- Unmatched 98% DC to AC Conversion Efficiency
- MPPT efficiency exceeding 99.9%
- Up to 2 MPPT Channels, more power generation
- Wide MPPT Range, longer power generation time MPPT

Unparalleled Installation Experience

- Plug-and-play design for quick connection
- Compact design with only 16KG weight
- Ultra-fast configuration in under 10 minutes

More Adaptive Design

- -20 ~ 60°C working temperature
- 100% of rated power at altitudes up to 4000m
- IP65 waterproof rating for both indoor and outdoor
- Large string current, higher power PV compatible

More User-Friendly

- No fan design, lower noise (ME-GSE-T10K Only)

Technical Data

Model	ME-GSE-T10K	ME-GSE-T15K
Battery Input Data		
Battery Type	Li-Ion	
Nominal Battery Voltage (V)	720	
Battery Voltage Range (V)	680 ~ 800	
Max. Charging Current (A)	10	13
Max. Discharging Current (A)	10	13
PV String Input Data		
Max. PV Input Power (W)	11000	16000
Max. PV Input Voltage (V)	1100	
Start-up Voltage (V)	240	
MPPT Voltage Range (V)	180~800	
Rated PV Input Voltage (V)	720	
Max. Operating PV Input Current (A)	15	
Max. Input Short-Circuit Current (A)	18	
Number of MPPT Trackers	2	
Number of Strings per MPPT	1	
AC Output Data (On-grid)		
Rated AC Input/Output Active Power (W)	10000	15000
Max. AC Input/Output Apparent Power (VA)	11000	16500
Rated AC Input/Output Current (A)	15.1 / 14.5/ 13.9	22.7/ 21.7/ 20.8
Max. AC Input/Output Current (A)	16.6/ 16.0/ 15.3	25/ 23.9/ 22.9
Peak Power (off-grid) (W)	1.2 times rated power	
Power Factor Adjustment Range	0.85 leading to 0.85 lagging	
Rated Input/Output Voltage (V)	230/400	
Rated Input/Output Grid Frequency(Hz)	50/60	
Grid Connection Form	3W+N+PE	
Total Current Harmonic Distortion THDi	<3% (of nominal power)	
Efficiency		
Max.PV to AC Efficiency	98%	
European Efficiency	97.7%	
Max. Battery to AC Efficiency	98%	
Max.PV to Battery Efficiency	98.8%	
MPPT Efficiency	99.9%	
Protection		
PV Insulation Resistance Detection	Integrated	
Residual Current Monitoring	Integrated	
PV Reverse Polarity Protection	Integrated	
Anti-islanding Protection	Integrated	
AC Overcurrent Protection	Integrated	
AC Short Circuit Protection	Integrated	
AC Overvoltage Protection	Integrated	
General Data		
Operating Temperature Range (°C)	-25 ~ +60 , >45°C Derating	
Relative Humidity	0 ~ 95% RH	
Max. Operating Altitude (m)	4000	
Cooling Method	Nature Convection (ME-GSE-T10K Only)	
User Interface	APP	
Communication with BMS	RS485	
Communication with Meter	RS485	
Communication with Portal	Wifi / Ethernet	
Weight (kg)	21	
Dimension (W × H × D mm)	550 x 496 x 217	
Topology	Non-isolated	
Ingress Protection Rating	IP65	
Mounting Method	Wall Bracket	
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
Grid Regulation	CEI 0-21, EN 50549	

Accessory



Smart Backup Box

Model: ME-GSE-Backup

Seamless Switchover

Automatic detection and rapidly shifts between grid and backup power.

Reliable Supply

Millisecond response for uninterrupted power.

Model	ME-GSE-Backup
Performance	
Inverter port current	63A
Current of the backup power port	63A
Grid port current	63A
Rated AC voltage	220/230/240V, L+N+PE
Working mode	On-grid or off-grid
On/Off-grid switchover time	< 20ms
General Data	
Weight	≤5kg
Dimensions (W x H x D mm)	200 x 200 x 100
Communication with Portal	RS485
Max. Operating Altitude (m)	4000
Operating Temperature Range (°C)	-20 ~ +55
Ingress Protection Rating	IP55

Accessory

Accessories list			
Name	QTY	Picture	Remarks
Plastic expansion tube	4		cutout: Φ 6mm
Wood screw	4		size: Φ 5*40mm
Screw alignment paper	1		
PV spanner	1		used to Remove the PV and BAT connectors
Current transformer	1		
Wall mount bracket	1		
PV Connectors	4		2 male connectors+2 female connectors, used to connect PV
RS485/Low voltage communication connector	1		make sure to use right wire clamber to make wire harnesses
AC input connector	1		
RJ45 connector	1		

*NOTE: There are some cables need to be purchased by installers themselves.

Cables need to purchase by installers themselves

PV string input wiring: cables for Solar panel array connected with inverter, size: 4 ~6 mm²

Ethernet communication cable: Outdoor shielded twisted pair cable

AC output wiring: Outdoor copper cable, size: 4~6mm²

wiring for PE (protective Earth): Single core outdoor copper: 4~10mm²

inverter parallel wiring: shielded Ethernet cable, outdoor

Wiring for 16 pin RS485 and low voltage communication connector: wiring harness or multiple-core cable with core size: 0.5~0.75mm²