

Single-phase Hybrid Inverter

Model: ME-GSE-S3.6K/4.6K/5K



IP65



5kW



High Voltage



Dual MPPT

CEI 0-21 EN 50549 IEC/EN 61000-6-1/2/3/4
IEC/EN 62109-1 IEC/EN 62109-2



Proactive Power Safety Shield

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



Superior Performance

- Unmatched 97.6% 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

Technical Data

Model	ME-GSE-S3.6K		ME-GSE-S4.6K		ME-GSE-S5K	
Battery Input Data						
Battery Type	Li-Ion					
Nominal Battery Voltage (V)	450					
Battery Voltage Range (V)	450 ~ 550					
Max. Charging Current (A)	10	10		10		
Max. Discharging Current (A)	10	10		10		
PV String Input Data						
Max. PV Input Power (W)	4500	6000		6500		
Max. PV Input Voltage (V)	550					
Start-up Voltage (V)	120					
MPPT Voltage Range (V)	90 ~ 500					
Rated PV Input Voltage (V)	380					
Max. Operating PV Input Current (A)	13					
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)	3600	4600		5000		
Max. AC Input/Output Apparent Power (VA)	3800	4800		5500		
Rated AC Input/Output Current (A)	16.4 / 15.7/ 15.0	20.9/ 20.0/ 19.2		22.7/ 21.7/ 20.8		
Max. AC Input/Output Current (A)	17.3/ 16.5/ 15.8	21.8/ 20.8/ 20.0		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)	220/ 230/ 240					
Rated Input/Output Grid Frequency(Hz)	50/ 60					
Grid Connection Form	L+N+PE					
Total Current Harmonic Distortion THDI	<3% (of nominal power)					
Efficiency						
Max.PV to AC Efficiency	97.6%					
European Efficiency	97.3%					
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					
User Interface	APP					
Communication with BMS	RS485					
Communication with Meter	RS485					
Communication with Portal	Wifi / Ethernet					
Weight (kg)	16					
Dimension (W × H × D mm)	376 × 396 × 145					
Topology	Non-isolated					
Self-consumption at Night (W)	<6					
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					