



Single-phase Hybrid Inverter

Model: ME-GSE-S3.6K | ME-GSE-S4.6K | ME-GSE-S5K

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 weigh
- 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
- Generator supported



Technical Parameter

Model	ME-GSE-S3.6K	ME-GSE-S4.6K	ME-GSE-S5K
Battery Input Data			
Battery Type	Li-Ion(LFP)		
Nominal Battery Voltage (V)	450		
Battery Voltage Range (V)	450 ~ 550		
Max. Charging Current (A)	10	12	13
Max. Discharging Current (A)	10	12	13
PV String Input Data			
Max. PV Input Power (W)	4680	5980	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		