

IP65 Hybrid Inverter

Model: ME-GSE-S5K



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



Reliable&Safe

- Runs full power up to 4000m, expanding your installation possibilities
- IP65-rated for indoor/outdoor use, ensuring worry-free performance in any weather
- 4-layer protection (DC Arc protection \ leakage protection \ SunSpec rapid shutdown \ insulation monitoring)

User-friendly

- Fanless design keeps noise under 25dB
- Configuration within 10 minutes
- Wire-free plug and play design enables quick connection

Superior Performance

- Dual MPPT channels boosts generation
- MPPT efficiency exceeding 99.9%
- High voltage design delivers 8% more energy per cycle for faster returns
- Wide MPPT Range, longer power generation time MPPT

Smart

- Remote control, diagnosis and maintainance
- Firmware OTA updates without physical access
- 24/7 real-time monitoring gives complete visibility

Technical Parameter

Model	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
Max. Discharging Current (A)	10
PV String Input Data	
Max. PV Input Power (W)	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)	5000
Max. AC Input/Output Apparent Power (VA)	5500
Rated AC Input/Output Current (A)	22.7/ 21.7/ 20.8
Max. AC Input/Output Current (A)	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)	-20 ~ +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