



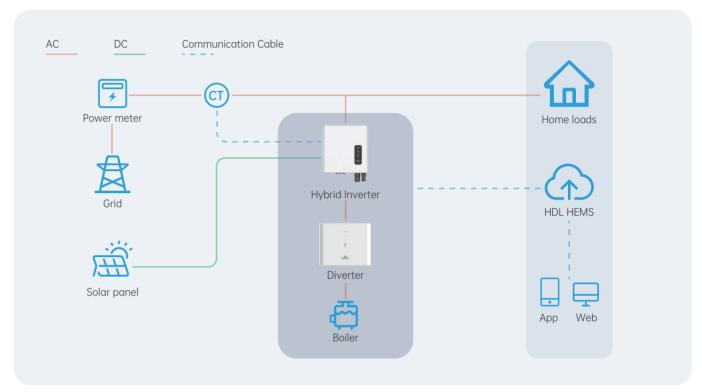
Innovative Solar Energy Storage Solutions





On-grid Energy Storage Solution

Tailored for regions with abundant sunlight and stable power supply, this is a versatile and effective means of harnessing solar power.

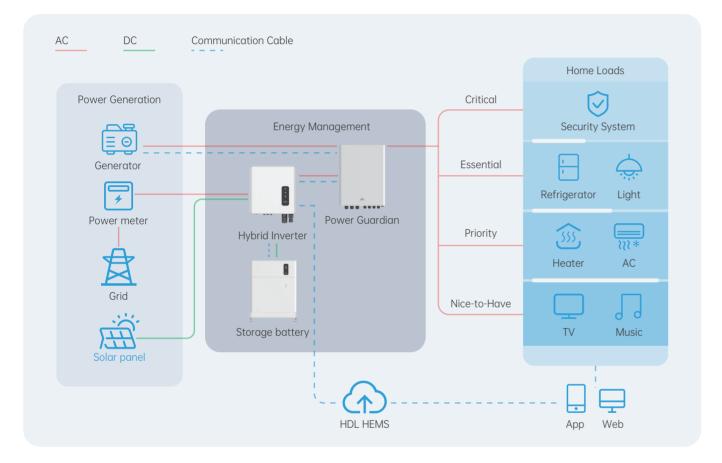


Working Mode

- Power Generation Using Only Inverter:
 Solar power to feed homeloads, surplus feed into grid.
- Power Generation Using Both Inverter and Diverter:
 Solar power to feed homeloads in priority, surplus power heat the boiler, remaining surplus power sell to grid.
- ► PV Production Lower Than Homeloads: All loads supported by PV and grid.
- Without Solar Power:
 Take power from grid.

Off-grid Energy Storage Solution

Tailored for regions with insufficient grid power supply and frequent outage, this solution extends battery runtime by at least 40%.



Working Mode

▶ When Grid Normal:

- 1. Daytime solar power to feed homeloads, surplus power stored in battery. If PV insufficient, compensated from Battery.
- 2. At night, prioritizing ESS for household needs, battery insufficient then import from grid.

▶ When Grid Outage:

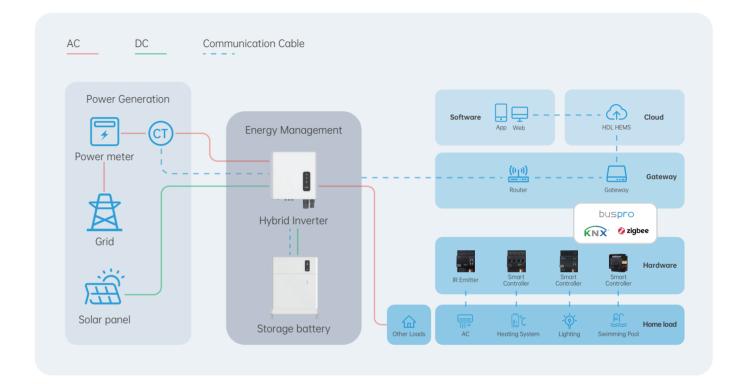
In case outage, automatically switch off connection with grid and use PV and ESS to power homeloads, battery insufficient then automatically switch on generator. In case detection of grid recovery, automatically tie grid.

Grid Outage But No Generator:

Use PV and ESS to keep the power on during an outage, when inverter output power runs low automatically switch off non-essential loads to secure power supply to essential loads.

Smart Home Solar ESS Solution

This system stands out with its intelligent features, adding intelligence to your system to avoid interruptions and manual interference.



Working Mode

During Daytime:

daytime solar power to feed homeloads, surplus power stored in battery. If PV insufficient, compensated from Battery.

During Nighttime:

prioritizing ESS for household needs, battery insufficient then import from grid.

During Outage:

When load consumption beyond inverter output power, automatically allocate off-peak power consumption of equipment to reduce load demand.

▶ When ESS Run Low:

Automatically activate generator for 24h uninterrupted power supply.



Proactive Power Safety Shield

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

S Unparalleled Installation Experience

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

More User-Friendly

·No fan design, lower noise

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

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More Adaptive Design

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

Technical Data

Model	ME-GSE-S3.6K	ME-GSE-S4.6K	ME-GSE-S5K	
Battery Input Data				
Battery Type		Li-lon		
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			
	CEI 0-21, EN 50549			



Proactive Power Safety Shield

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

S Unparalleled Installation Experience

- · Plug-and-play design for quick connection
- · Compact design with only 16KG weigh
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More User-Friendly

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

Superior Performance

·Unmatched 98% DC to AC Conversion Efficiency

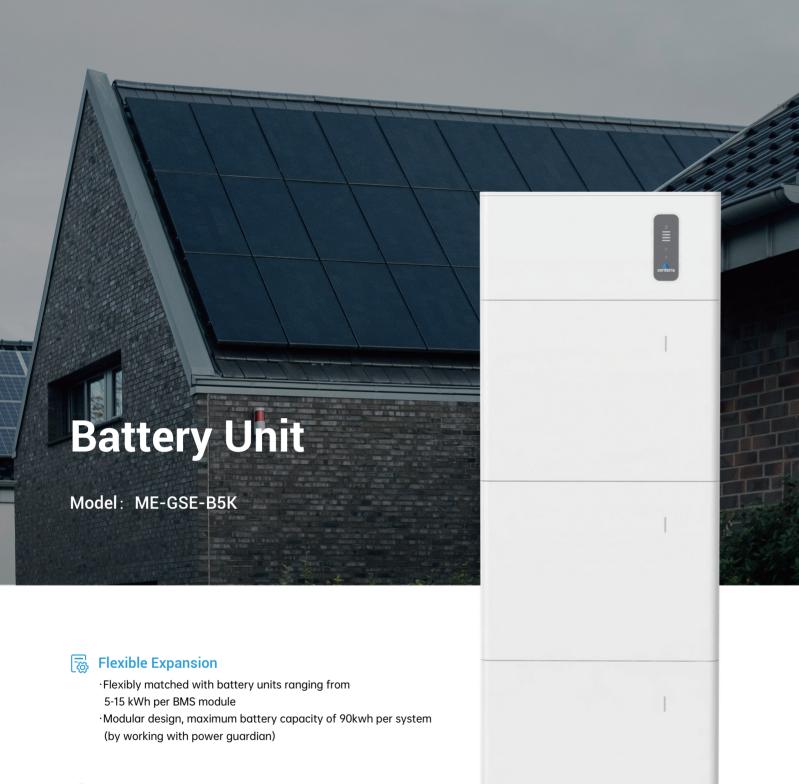
- ·MPPT efficiency exceeding 99.9%
- \cdot Up to 2 MPPT Channels, more power generation
- ·Wide MPPT Range, longer power generation time MPPT

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

Technical Data

Model	ME-GSE-T10K	ME-GSE-T15K	
Battery Input Data			
Battery Type	Li-lo	Li-lon	
Nominal Battery Voltage (V)	720	0	
Battery Voltage Range (V)	680 ~	800	
Max. Charging Current (A)	10	10	
Max. Discharging Current (A)	20	20	
PV String Input Data			
Max. PV Input Power (W)	11000	16000	
Max. PV Input Voltage (V)	110	0	
Start-up Voltage (V)	240		
MPPT Voltage Range (V)	180~8	300	
Rated PV Input Voltage (V)	720		
Max. Operating PV Input Current (A)	15	i	
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 ra		
Power Factor Adjustment Range	0.85 leading to		
Rated Input/Output Voltage (V)	230/4		
Rated Input/Output Grid Frequency(Hz)	50/6		
Grid Connection Form	3W+N		
Total Current Harmonic Distortion THDi	<3% (of nomi	inal power)	
Efficiency			
Max.PV to AC Efficiency	989	%	
European Efficiency	97.7%		
Max. Battery to AC Efficiency	98%		
Max.PV to Battery Efficiency	98.8%		
MPPT Efficiency	99.9		
Protection	77.0	70	
PV Insulation Resistance Detection	Integro	ated	
Residual Current Monitoring	Integri		
PV Reverse Polarity Protection	Integri		
Anti-islanding Protection	Integri		
AC Overcurrent Protection	Integri		
AC Short Circuit Protection	Integri		
AC Overvoltage Protection			
General Data	Integro		
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Operating Temperature Range (°C)	-25 ~ +60 , >45		
Relative Humidity	0 ~ 959		
Max. Operating Altitude (m)	Noture Convection (A		
Cooling Method	Nature Convection (N	· · · · · · · · · · · · · · · · · · ·	
User Interface	API		
Communication with BMS	RS4i		
Communication with Meter	RS4i		
Communication with Portal	Wifi / Eth		
Weight (kg)	21		
Dimension (W × H × D mm)	550 x 490		
Topology		Non-isolated	
Ingress Protection Rating	IP6		
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, E	N 50549	



S Effortless Installation

- · Stackable wire-free battery design
- \cdot 0.13 $\mbox{\ensuremath{\text{m}}}\xspace^2$ compact size for one person installtion
- · Ultra-fast configuration in under 10 minutes

Adaptive Design

- · -20 ~ 55°C working temperature
- · 100% of rated power at altitudes up to 4000m
- \cdot IP65 waterproof rating for both indoor and outdoor

Technical Data

Technical Data	5kWh	10kWh	15kWh
Performance			
BMS Module	ME-GSE-BMS15K		
Number of BMS module	1		
Nominal voltage (single-phase system)	450 V		
Operating voltage range (single-phase system)	450 ~ 550 V		
Nominal voltage (three-phase system)	720 V		
Operating voltage range (three-phase system)	720 ~880 V		
Batter module	ME-GSE-B5K		
Battery module capacity	5kWh		
Number of battery modules	1	2	3
Nominal voltage	256 V	512 V	768 V
Operating voltage range	240V~288V	480V~576V	720V~864V
Battery usable capacity	5kWh	10kWh	15kWh
Max. output power	5kW	10kw	15kw
Max. Charge Current	10A		
Max. Discharge Current	20A		
General Data			
Display	SOC status indicator, LED indicator		
Communication	RS485		
Weight (Floor stand toolkit included)	72	122	172
BMS module dimension (W × H × D mm)	588 × 195 × 184		
BMS module weight (kg)	22		
Battery module dimensions (W × H × D mm)	588 × 442 × 184		
Battery module weight (kg)	50		
Installation	Floor stand		
Operating Temperature Range (°C)	-20 ~ + 55		
Max. Operating Altitude (m)	4000		
Environment	Outdoor / indoor		
Permissible Ambient Humidity	5 ~ 95%		
Cooling Method	Nature Convection		
IP rating		IP65	
Cell technology	Lithium-iron phosphate (LiFePO4)		
Compatible inverters	ME-GSE-S3.6K / ME-GSE-S4.6K / ME-GSE-S5K / ME-GSE-T10K / ME-GSE-T15K		
Certificates	CE , IEC62619 , UN38.3		
Available for ordering	ME-GSE-B5K, ME-GSE-BMS15K		





integrate power from grid, PV, wind turbine, battery and generators

Automatic Control

automatically shut down lower priority loads to prevent overloads and manual intervention

Maximize Backup Time

shed large loads in a smart way to maximum backup time during blackouts



Load Prioritization

efficiently classify and prioritize home loads, pairing with preset SOC value

Control from Anywhere

effortlessly manage your energy control from anywhere at any time via intuitive mobile APP



Modular Design

allowing extensible channels of smart loads control: 4,8,12,16

Technical Parameter

Model	ME-GSE-PG63A
Performance	
Inverter port current	63A
Current of the backup power port	63A
Current of the non-backup power port	63A
Grid port current	63A
Rated AC voltage	230/400V, L+N+PE/3W+N+PE
Working mode	On-grid or off-grid
On/Off-grid switchover time	20ms
Generator	Integrated
Number of controlled channels	4 (Support for extensions)
Energy monitoring	Integrated
Active energy distribution	Integrated
Bypass mode	Manual
General Data	
Weight	≤15kg
Dimensions (W x H x D mm)	400 x 500 x 100
User Interface	Арр
Communication with Portal	Wi-Fi / Ethernet
RS485	Integrated
Max. Operating Altitude (m)	4000
Operating Temperature Range (°C)	-20 ~ +55
Ingress Protection Rating	IP55

Xenterra Solar App

Intelligent control all on one app

Xenterra solar is a user-friendly app that allows seamless control of BESS system and household devices while enabling real-time monitoring and management of energy generation, storage, sales and consumption anywhere and anytime. It helps users optimize their electricity usage in a smart, cost-effective, and secure way.



Real-time Monitoring



Monitor power generation, battery levels, charging and discharging status, and electricity consumption in real time, ensuring clear visibility of energy usage.

Instant Notifications & Alerts



Homeowners can receive instant notifications on low battery levels, device malfunctions, or excessive energy consumption, ensuring quick problem resolution.

Energy Consumption Insights



Track and analyze your energy consumption patterns over time, helping homeowners optimize consumption and improve usage habits.

Remote Control



Take full control of your BESS and homeloads anywhere, anytime. Whether at home or on the go, you can easily adjust settings or manage charging to ensure optimal performance.