



Single Phase ESS Hybrid Inverter

Compatible with Midea Smart Low Voltage ESS
ME-HS5L-A - 5kW



Energy Independence

- Typical 10ms fast transition to backup mode during power outage
- < 2 Hours (5kW/5kWh system) high efficiency circulation for charging and discharging
- Supports standby diesel generator



Midea EMS Supports Maximum Self-sufficiency

- 90% energy self-sufficiency with Midea EMS connect with heat pump



High Yield

- DC Max. efficiency 97.3%
- Battery charge/discharge efficiency 94%



Midea Residential Energy Storage System

Model	ME-HS5L-A
Input (PV)	
Max. PV Power (W)	9000
Max. PV voltage (V)	550
MPPT voltage range (V)	90~520
Max. input current of single MPPT(A)	15
MPPT tracker/strings	2/1
Max. short current (A)	20
Start operating voltage (V)	90
Input (BAT)	
Compatible battery type	Lithium-iron/Lead-acid
Battery voltage range (V)	40~60
Max. charge current (A)	120
Max. discharge current (A)	120
Max. charge/discharge power (W)	5000/5000
Max. charging voltage(V)	60
Output (Grid)	
Rated output power(VA)	5000
Max. AC output apparent power (VA)	5500
Max. AC output current (A)	25
Rated AC voltage (V)	220
AC voltage range (V)	150~300
Rated grid frequency (Hz)	50/60
AC output topology	L+N+PE
Power factor	0.8 lagging-0.8 leading
THDI	<3%
Output (Back up)	
Nominal output voltage (V)	230
Nominal output frequency (Hz)	50/60
Nominal output power (VA)	5000
Nominal output current (A)	21.7
Transfer time (ms)	10(typ) /20(max)
THDu	<3%
Efficiency	
Battery charge /discharge efficiency	94%
DC Max. efficiency	97.30%
Europe efficiency	95.5%
MPPT efficiency	99.90%
General data	
Max. operation altitude (m)	2000 (derating above 2000m)
Noise emission (dB)	<35
Ingress protection degree	IP65
Operating temperature range (° C)	-25~60
Relative humidity (%)	0~100 (non-condensing)
Cooling	Natural
Dimensions (W*D*H) (mm)	550*200*520
Weight (Kg)	25
Isolation transformer	No
Self-consumption (W)	<10
Protection	
DC switch	Support
DC reverse polarity protection	Support
Over temperature protection	Support
Overpower protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
Insulation detection	Support
Display and communication	
Display	LED+APP
Communication interface	RS485, CAN, DRM/RS485 (for Meter), Optional: WiFi
Certification	
Grid	AS/NZS 4777.2, UNE 217002, RD 647, NTS, NRS097-2-1
Safety	IEC/EN62109-1/-2, IEC/EN62477-1
EMC	IEC/EN 61000-6-1, IEC/EN61000-6-3
Warranty (years)	5

* Appearance and parameters are subject to adjustment without prior notice

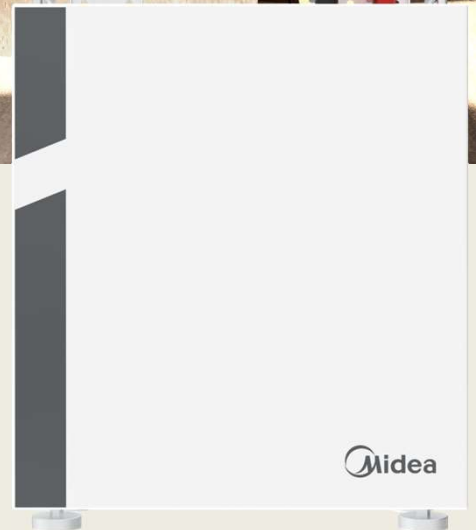


Smart Low Voltage EnergyStorage

(Compatible with Single Phase Hybrid Inverter)

Safe & Reliable CATL Lithium Ion Phosphate (LFP) Cell

ME-B5L-S - 5.12 kWh



Reliable & Friendly Installation

- CATL Grade-A battery cells inside
- Wall/floor mount with mating connector to make installation easier
- Compact size, 53kg light weight



Patented Charging & Discharging Technology

- Auto cell balance technology ensures longer lifetime
- Smooth battery charge/discharge current



Flexible Expansion

- Supports multiple expansions options - refer to user manual
- Max Scale up to 5kWh x 15 battery units in Parallel (max 75kWh on DC)
- Max Scale up to 3 x 5Kwh Inverters in Parallel (max 75kWh batteries x 3 = 225kWh Max on AC)

* Appearance and parameters are subject to adjustment without prior notice



Model	ME-B5L-S
Battery Parameters	
Nominal Voltage	51.2V
Nominal Energy	5.12kWh
Discharge Voltage	45~54V
Charge Voltage	51.5~57.6V
Con. Charging Current	60A
Con. Discharge Current	60A
Max. Discharge Current	99A
Con. Discharge DC Power	3000W
Max. Discharge DC Power	5000W
Operating Temperature	Charge: 0~50°C Discharge: -20~50°C
General Data	
Scalability	Paralleling Max 15, refer to user manual
DoD	90%
Communication	CAN/RS485
Cycle Life	≥ 6000cycles
IP Grade	IP31
Installation	Wall mount / Floor-standing
Dimension [W*D*H]	450*205*535(mm)
Weight	53Kg
Warranty	5 years product warranty, 10 years performance warranty
Certification	UN38.3/CE/IEC62619
* When the temperature < 0°C or > 45°C, the product performance is limited.	



Single Phase ESS Hybrid Inverter

Compatible with Midea Smart Low Voltage ESS
ME-HS8L - 8kW



Energy Independence

- Typical 10ms fast transition to backup mode during power outage
- 4 MPPT trackers
- Supports standby diesel generator



Midea EMS Supports Maximum Self-consumption

- 78% self-consumption with Midea EMS system connect with heat pump



High Yield

- DC Max. efficiency 97% , Battery charge/discharge efficiency 97.2%
- Max. charging/discharging current up to 190A

Model	ME-HS8L
Input (PV)	
Max. PV Power (W)	12000
Max. PV voltage (V)	500
MPPT voltage range (V)	120~500
Max. input current of single MPPT(A)	12
MPPT tracker/strings	4/1
Max. short current (A)	15
Start operating voltage (V)	120
Input (BAT)	
Compatible battery type	Lithium-iron/Lead-acid
Battery voltage range (V)	40~60
Max. charge current (A)	190
Max. discharge current (A)	190
Max. charge/discharge power (W)	8000/8000
Max. charging voltage(V)	60
Output (Grid)	
Rated output power(VA)	8000
Max. AC output apparent power (VA)	8800
Max. AC output current (A)	38.3
Rated AC voltage (V)	230
AC voltage range (V)	220,230,240
Rated grid frequency (Hz)	50/60
AC output topology	L+N+PE
Power factor	0.8 lagging-0.8 leading
THDI	<3%
Output (Back up)	
Nominal output voltage (V)	220,230,240
Nominal output frequency (Hz)	50/60
Nominal output power (VA)	8000
Nominal output current (A)	38.3
Transfer time (ms)	10(typ) /20(max)
THDu	<2%
Efficiency	
Battery charge /discharge efficiency	97.20%
DC Max. efficiency	97.00%
Europe efficiency	97.80%
MPPT efficiency	99.90%
General data	
Max. operation altitude (m)	2000 (derating above 2000m)
Noise emission (dB)	<35
Ingress protection degree	IP65
Operating temperature range (° C)	-25~60
Relative humidity (%)	0~95 (non-condensing)
Cooling	Fan Cooling
Dimensions (W*D*H) (mm)	460*225*760
Weight (Kg)	41
Isolation transformer	No
Self-consumption (W)	< 5
Protection	
DC switch	Support
DC reverse polarity protection	Support
Over temperature protection	Support
Overpower protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
Insulation detection	Support
Display and communication	
Display	LED+APP
Communication interface	RS485, CAN, DRM/RS485 (for Meter), Optional: WiFi
Certification	
Grid	NRS097-2-1
Safety	IEC 62109-1/-2
EMC	IEC 61000-6-1, IEC 61000-6-3
Warranty (years)	5



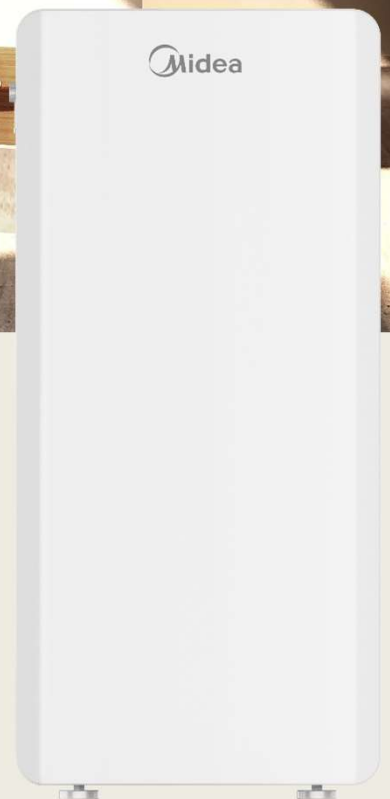
Smart Low Voltage EnergyStorage

(Compatible with Single Phase Hybrid Inverter)

Safe & Reliable by CATL Lithium Iron Phosphate (LFP) Cell

ME-B12L-S – 12.28 kWh

ME-B15L-S - 15.46 kWh



More Usage Scenarios

- Flexible expansion to meet light commercial ESS system
- Supports multiple expansions options - refer to user manual
- Max Scale up 12kWh / 15kWh x 12 battery units in Parallel (max 144kWh / 180kWh on DC)
- Max Scale up to 3 x Inverters in Parallel (max 144kWh/180kWh batteries x 3 = 432kWh /540kWh Max on AC)



Reliable and Patented Charging & Discharging Technology

- CATL Grade-A battery cells inside
- Auto cell balance technology ensures longer lifetime



Easy Installation

- Wall/floor mount with mating connector to make installation easier
- Compact size, only 120kg light weight for 15kWh

Model	ME-B12L-S	ME-B15L-S
Battery Parameters		
Nominal Voltage	51.2V	
Nominal Energy	12.28kWh	15.46kWh
Discharge Voltage	45~54V	
Charge Voltage	51.5~57.6V	
Con. Charging Current	200A	
Con. Discharge Current	200A	
Max. Discharge Current	230A	
Con. Discharge DC Power	10,000W	
Max. Discharge DC Power	30,000W / More than 4 units in parallel	
Operating Temperature	Charge:0~55℃ Discharge:-20~60℃	
General Data		
Scalability	Paralleling Max 12, refer to user manual	
DoD	90%	
Communication	CAN/RS485	
Cycle Life	≥6000cycles	
IP Grade	IP31	
Installation	Wall mount / Floor-standing	
Dimension [W*D*H]	460*200*980(mm)	460*230*980(mm)
Weight	113Kg	120Kg
Warranty	5 years product warranty, 10 years performance warranty	
Certification	UN38.3/CE/IEC62619	
* When the temperature < 0℃ or > 45℃, the product performance is limited.		