



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%



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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/EN 61000-6-3
Warranty (years)	5