

MHELIØS

Midea MHELIOS Flex - H Energy Management System (Single-Phase)



About Midea

Midea Group is a Fortune 500 company, with robust business growth across multiple sectors. We believe in humanizing-technology and provide customized solutions for smart home appliances, electro-mechanical, building technologies, robotic&automation and digital innovation.

#278

2023 Fortune Global 500

#199

2023 Forbes Global 2000

#36

Brand Finance 2022 Top 100 Most Valuable Tech Brands 200+

Countries & Regions of Operation

A/A3/A 160,000+

S&P/Moody's/Fitch Credit Ratings

Employees

R&D centers in 12 countries all around the world 40

Production centers in 14 countries all around the world

Residential Energy Management Solutions for Single-Phase Grid Scenario



Midea MHELIOS Flex - H Single-Phase Hybrid Inverter

EH Series



Smart Energy Management:

- Free solar energy to power the air-conditioner avoiding electricity anxiety
- Eliminate unnecessary additional costs with smart home scene control

Flexible Application:

- Supports multiple parallel systems with more solutions (up to 6 units)
- Meets PV only installation, battery added and compatible with existing PV system scenarios

Outstanding Performance

- UPS Class switching time (<10ms) supporting essential loads
- Max. efficiency is up to 97.8%

Midea MHELIOS Flex - H Low Voltage Energy Storage

BL Series



* Friendly Installation

- 10mins quick installation by single person
- Wall mounted or floor mounted meeting various installation.
- Automatic module ID assignment with one-button operation.

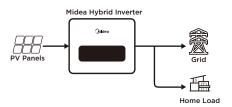
Safe and Reliable

• Remote diagnosis and real-time data monitoring

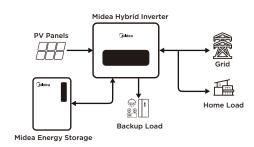
R Flexible Expansion:

• Supports parallel operation (up to 4 units)

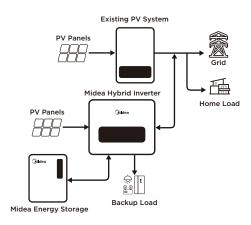
Meets PV only installation



Battery added



Compatiable with Existing PV System



EH-5K-A-MO

Midea MHELIOS Flex - H Single-Phase Hybrid Inverter

Single phase Dual MPPT Compatible with low voltage battery



Single Phase Hybrid Inverter Model					
Input DC (PV side)	EH-5K				
Recommended max. PV input power (Wp)	7500				
Max. input voltage (V)	600				
Start-up voltage (V)	100				
Number of MPP trackers	1/1				
Max. input current per MPPT (A)	13/13				
Max. input short circuit current per MPPT (A)	18/18				
Input DC (Battery)					
Battery type	Lithium-ion, Lead-acid				
Battery voltage range (V)	42-58				
Max. charging / discharging power (W)	5000/5000				
Max. charging/discharging current (A)	100/100				
Output / Input AC (Grid side)					
Nominal AC power (W)	5000				
Nominal grid voltage	L / N / PE, 230 Vac				
Nominal AC current output to utility grid (A)	21.7				
Nominal frequency	50 Hz / 60 Hz				
Output THDi (@Nominal output)	< 3%				
Power factor	1 default (+/-0.8 adjustable)				
Output AC (EPS)					
Max. apparent power (VA)	5000				
Peak output power, duration (VA, s)	6000,30s				
Max. output current (A)	21.7				
Nominal voltage, frequency	L / N / PE, 230 Vac, 50 Hz / 60 Hz				
THDv (@Symmetrical load)	< 3%				
Switch time	10 ms default				
Efficiency					
Max. efficiency	97.80%				
European efficiency	97.30%				
Max. charging/discharging efficiency of battery	94.60%				
General Data					
Ambient temperature range	-30°C~+60°C (above 45°C derating)				
Degree of protection	IP65				
Communication	RS485/CAN/ Wifi				
Weight (kg)	21.5				
Dimension (mm) (W*H*D)	482*503*183				
Certifications & Standards					
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12				
Safety standards	IEC 62109-1 / 2, IEC62040-1				
Grid standards	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, EN 50549, G99, XP C15-712-3, UNE 217002				

^{*}All specifications are subject to change without notice.

BL5.1-A-M1

Midea MHELIOS Flex - H 5.1kWh Midea Low Voltage Energy Storage

Compatible with EH Series Hybrid Inverter



Basic Parameters	BL5.1-A-M1			
Total energy	5120Wh			
Usable energy(90%DOD)	4608Wh			
Nominal valtage	51.2V			
Operating voltage range	40.8-57.6V			
Nominal capacity	100Ah			
Nominal charging/discharging current	50A			
Nominal charging/discharging power	2560W			
Battery type	LFP			
Communication	RS232, CAN			
Charge temperature	0°C~55°C			
Discharge temperature	- 20°C~60°C			
Environmental humidity	5~95%			
Operating altitude	≤ 2000 m			
Max. number of parallel groups	4			
Protection class	IP65			
Weight	45kg			
Dimension(W*H*D)	396*681*154.5mm			
Installation	Wall Mounted / Floor Stand			
Certificates	IEC62619, UN38.3			

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