



MHELIOS

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



Midea MHELIOS Flex - H
Three-Phase Hybrid
Inverter

Midea MHELIOS Flex - H
High Voltage Energy
Storage

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

S&P/Moody's/Fitch
Credit Ratings

160,000+

Employees

35

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 Three-Phase Grid Scenario



Midea MHELIOS Flex - H Three-phase Hybrid Inverter

EH-10KT-A-MO

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:

- Maximum two battery inputs.
- 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

- EPS Supports 100% unbalanced loads
- UPS Class switching time (<10ms) supporting essential loads
- Max. efficiency is up to 98.2%



Midea MHELIOS Flex - H High Voltage Energy Storage

BH10.2-A-MO

Friendly Installation

- Modular design, convenient for installation and transportation
- Automatic module ID assignment with one-button operation.

Safe and Reliable

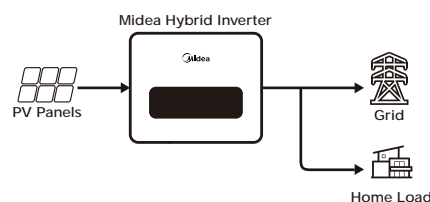
- Remote diagnosis and real-time data monitoring
- Extremely low battery self-consumption in sleep mode
- Maximal battery energy with pack optimization

Flexible Expansion:

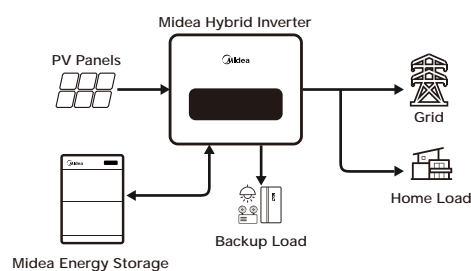
- 5kWh per battery module, up to 20kWh battery capacity



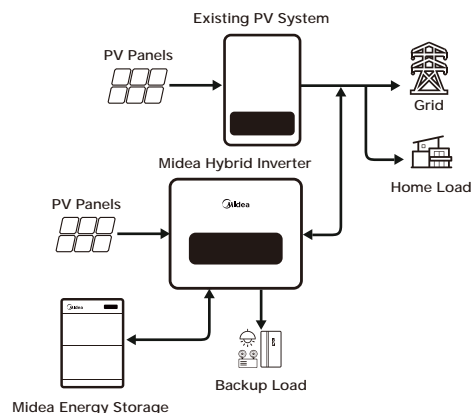
Meets PV only installation



Battery added



Compatible with Existing PV System



EH-10KT-A-MO

Midea MHELIOS Flex - H Three-phase Hybrid Inverter

Three phase
Dual MPPT
Compatible with high voltage battery



- BH5.1-A-MO
- BH10.2-A-MO
- BH15.3-A-MO
- BH20.4-A-MO

Midea MHELIOS Flex - H 5/10/15/20kWh Midea High Voltage Energy Storage

Compatible with EH-10KT-A-MO
Hybrid Inverter



Model	EH-10KT-A-MO
Input DC (PV side)	
Recommended max. PV input power (Wp)	15000(7500/7500)
Max. DC voltage (V)	1000
Max. input current (A)	25 / 25
Max. short current (A)	30 / 30
No. of MPP trackers	2
No. of strings per MPP tracker	2
Input DC (Battery)	
Battery type	Lithium-ion, Lead-acid
No. of battery input	2
Battery voltage range (V)	180-800
Nominal charging / discharging power (W)	10000(5000/5000)
Max. charging / discharging current (A)	50 (25 / 25)
Output / Input AC (Grid side)	
Nominal AC power (W)	10000
Max. AC power from utility grid (VA)	20000
Max. AC current output to utility grid (A)	16
Max. AC current from utility grid (A)	29
Nominal grid voltage	3 / N / PE, 230 / 400 Vac ,50 / 60 Hz
Output AC (Back-up)	
Nominal output power (W)	10000
Rated output current (A)	14.5
Nominal output voltage	3 / N / PE, 230 / 400 Vac,50 / 60 Hz
Switch time	< 10 ms
Efficiency	
Max. efficiency	98.20%
Max. battery charge / discharge efficiency	97.80%
General Data	
Dimension(mm) (W*H*D)	586.6*515*261.2
Weight (kg)	37
Protection degree	IP65
Certifications & Standards	
EMC	EN61000-1, EN61000-2, EN61000-3, EN61000-4
Safety	IEC 62109-1 / 2, IEC62040-1
Grid	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, EN 50549, G99, UTE C15-712-1, UNE 217002
Warranty	
Warranty	5-10 years

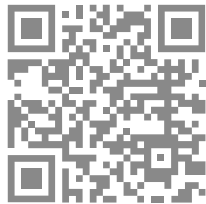
*All specifications are subject to change without notice.

Model	BH5.1-A-MO	BH10.2-A-MO	BH15.3-A-MO	BH20.4-A-MO
System parameters				
Number of battery module	1	2	3	4
Battery total energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Nominal voltage	400V			
Operating voltage range	350-435V			
Rated charge/discharge power	2.5kW	5kW	7.5kW	10kW
Max. charging current	6A	12A	18A	24A
Max. discharging current	7.5A	15A	22.5A	30A
Dimension(W*H*D)	708*680*170mm	708*1100*170mm	708*1520*170mm	708*900*170mm 708*1100*170mm
Weight	59kg	110kg	161kg	212kg
Protection class	IP65			
Battery Module Parameters				
Battery type	Lithium-iron phosphate (LiFePO ₄)			
Nominal voltage	400V			
Battery module energy	5.12kWh			
Weight	50kg			
Dimension (W*H*D)	708*420*170mm			
Installation	Floor stand			
Battery Distribution Unit Parameters				
Max. charging/discharging current	35A			
Dimension (W*H*D)	708*200*170mm			
Weight	7.5kg			
Standard				
Certificates	UN38.3,IEC62619, IEC62040-1,etc.			
Warranty				
Warranty	10 years			

*All specifications are subject to change without notice.



make yourself at home



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🌐 <https://www.midea.com/global/mhelios>