



Midea MHELIOS Home Energy Manager (Three Phase)

M1-T5/6/8/10K



Intelligent management

- High self-consumption with optimized built-in energy management function



Flexible application

- Meet multi-scenarios: PV installation only , MESU added and battery extension capability



Sector coupling

- Plug & play dry contact and Modbus interface for ready heat pump control



Easy to maintenance

- Free online monitoring, All information about PV system is available anytime and anywhere.

Model	M1-T5K	M1-T6K	M1-T8K	M1-T10K
Input (PV)				
Recommended max. PV power(Wp)	7500	9000	12000	15000
Max. input voltage(Vdc)	1000			
MPPT operating voltage range(Vdc)	160 ~ 800			
Start-up voltage(Vdc)	200			
Rated input voltage(Vdc)	600			
Max. input current per MPPT(A)	14			
Max. short-circuit current(A)	16			
Number of MPP trackers	2			
Max. input number per MPP tracker	1			
Input(Battery)				
Battery Type	LiFePO ₄			
Operating voltage range(Vdc)	600~980			
Max. operating current(A)	16.7			
Max. charge power(W)	10000	10000	10000	10000
Max. discharge power(W)	5000	6000	8000	10000
Output (AC Grid)				
Grid connection	Three phase			
Rated output power(W)	5500	6600	8800	10000
Max. apparent power(VA)	5500	6600	8800	11000
Rated output voltage(Vac)	220 / 380 , 230 / 400 , 3/N/PE			
Rated AC grid frequency(Hz)	50/60 Hz			
Max. output current(A)	8	9.6	12.8	16
Adjustable power factor	0.8 leading ... 0.8 lagging			
Max. total harmonic distortion	3%			
Output (AC backup)				
Maximum apparent AC power(VA)	5500	6600	8800	10000
Max. output current (A)	7.2	8.7	11.6	14.5
Nominal output power(VA)	5000	6000	8000	10000
Nominal output current (A)	7.2	8.7	11.6	14.5
Nominal output voltage(Vac)	220 / 380 , 230 / 400 , 3/N/PE			
Switching to backup mode	<3 s			
Efficiency				
Max. efficiency	98%			
European weighted efficiency	97.5%			

General Data	
Operating temperature range	-25℃ ~+70℃
Relative operating humidity	0 %RH~100 % RH
Max. operating altitude	4000 m
Cooling	Natural convection
Display	LED indicators; integrated WLAN + APP
Communication	RS485, WLAN
Weight(kg)	34.5
Dimension (W*H*D)	521x516x247 mm
Degree of protection	IP65
Protective class	Class I
Overvoltage category	III[AC];II[PV];II[BATTERY]
Topology	Non-Isolation
Active anti-islanding method	Frequency shift
Country of manufacture	China
Standard Compliance	
EMC	EN 61000-6-1,EN 61000-6-3,EN 62920
Safety	IEC62109-1, IEC62109-2
Grid	EN 50549-1, VDE-AR-N 4105, CEI 0-21,G99, UTE C15-712-1, UNE 217002, TR321,TR322, C10/11, AS/NZS 4777.2:2020
Protections & Features	
Input-side disconnection device	Yes
Anti-Islanding protection	Yes
DC reverse polarity protection	Yes
Insulation monitoring	Yes
Residual current monitoring	Yes
AC overcurrent protection	Yes
AC short-circuit protection	Yes
AC overvoltage protection	Yes
LVRT	Yes
Energy management	Yes
Back-up power	Yes
Warranty	
Warranty	10 years

*All specifications are subject to change without notice.