



## 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
<b>Input (PV)</b>				
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			
<b>Input(Battery)</b>				
Battery Type	Lithium-ion battey			
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
<b>Output (AC Grid)</b>				
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 <sub>r</sub>	0.8 leading ... 0.8 lagging			
Max. total harmonic distortion	3%			
<b>Output (AC backup)</b>				
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			
<b>Efficiency</b>				
Max. efficiency	98%			
European weighted efficiency	97.5%			
<b>General Data</b>				
Operating temperature range	-25 C ~ +60 C			
Relative operating humidity	0 %RH ~ 100 % RH			
Max. operating altitude	2000 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			
<b>Standard Compliance</b>				
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			
<b>Protections &amp; Features</b>				
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			
<b>Warranty</b>				
Warranty	10 years			

\*All specifications are subject to change without notice.