



## Midea MHELIOS Home Energy Manager (Three Phase)

M1-T10K



### 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-T10K
<b>Input (PV)</b>	
Recommended max. PV power(Wp)	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
Max. discharge power(W)	10000
<b>Output (AC Grid)</b>	
Grid connection	Three phase
Rated output power(W)	10000
Max. apparent power(VA)	11000
Rated output voltage(Vac)	220 / 380 , 230 / 400 , 3/N/PE
Rated AC grid frequency(Hz)	50/60 Hz
Max. output current(A)	16
Adjustable power factor	0.8 leading ... 0.8 lagging
Max. total harmonic distortion	3%
<b>Output (AC backup)</b>	
Maximum apparent AC power(VA)	10000
Max. output current (A)	14.5
Nominal output power(VA)	10000
Nominal output current (A)	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)	33.6
Dimension (W*H*D)	521x516x196 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.