



## Midea MHELIOS Home Energy Manager (Three Phase)

### Intelligent Management

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

### Quick Installation

- Easy plug and play installation, touch free commissioning with smartphone

### Flexible application

- Battery ready, meet multi-scenarios: PV installation only , battery added and battery extension capability

### 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                      | 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   |
| 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(Vca)         | 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    | <1s                                                                                    |        |        |         |
| 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          | <3s                                                                                    |        |        |         |
| Efficiency                        |                                                                                        |        |        |         |
| Max. efficiency                   | 98%                                                                                    |        |        |         |
| European weighted efficiency      | 97.5%                                                                                  |        |        |         |
| General Data                      |                                                                                        |        |        |         |
| Operating temperature range       | -25℃ ~ +60℃                                                                            |        |        |         |
| Relative operating humidity       | 0 %RH~100 %RH                                                                          |        |        |         |
| Max. operating altitude           | 2000m                                                                                  |        |        |         |
| Cooling                           | Natural convection                                                                     |        |        |         |
| Display                           | LED indicators; integrated WLAN + APP                                                  |        |        |         |
| Communication                     | RS485, WLAN                                                                            |        |        |         |
| Weight(kg)                        | 33.6                                                                                   |        |        |         |
| Dimension (W*H*D)                 | 521*516*196mm                                                                          |        |        |         |
| Degree of protection              | IP65                                                                                   |        |        |         |
| 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 |        |        |         |
| 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                                                                               |        |        |         |

\*The above specification is not final and is for reference only.