



Homaya Pro M3000

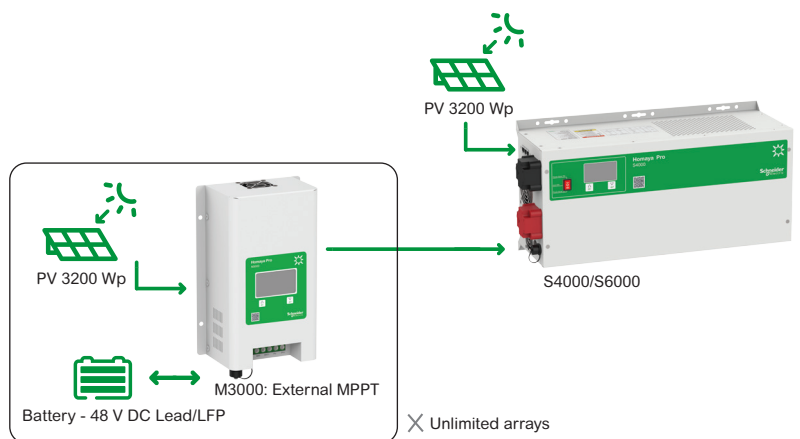
Solar MPPT 3 kW



The Homaya Pro M3000 is a PV charge controller with an advanced Maximum Power Point Tracking (MPPT) technology, providing modular expandability to the Homaya Pro Solar Off-grid inverters. It offers greater flexibility to meet higher energy demand and battery autonomy.

Unique features

- Add multiple solar arrays with M3000
- Compatible with both lithium ferro phosphate (LFP) and lead acid battery technology
- Advanced multi-stage (bulk, absorption, float) charging technology
- Intuitive and easy to program LCD screen
- Faceplate buttons for easy configuration



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Product at a glance

Homaya Pro MPPT enables solar array capacity enhancement of the off-grid Homaya Pro solution.

Flexible and scalable

- Maximum Power Point Tracking (MPPT) algorithm harvests the maximum power available from the PV
- Expand the PV array capacity for Homaya Pro Off-grid inverters
- Brand agnostic PV array compatibility
- Compatible with lead acid (Flooded, Gel, AGM) and Lithium Ferro Phosphate batteries
- Advanced multi-stage (bulk, absorption, float) charging technology for diverse applications
- Customizable battery charging profiles for diverse applications










Easy to use

- Intuitive and easy to program LCD screen
- Alerts with alarms for proactive maintenance
- Faceplate buttons for easy configuration

Homaya Pro

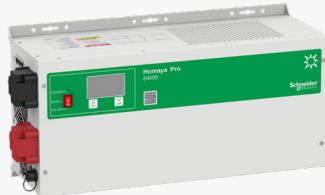
MPPT is available as M1000 and M3000, compatible with Homaya Pro Off-grid inverters S3000 and S4000/S6000

Customer Benefit

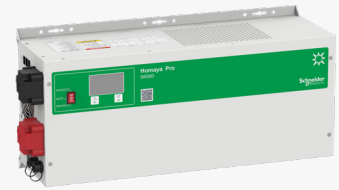
-  Upgrade the off-grid back-up time with additional solar panel array
-  Limitless expansion of solar panel array
-  Harvest the maximum power from the sun
-  Wide operating voltage window
-  Efficient battery charging
-  Intuitive LCD display for monitoring and programming
-  Last mile customisation of different LFP and lead acid battery charging profiles
-  Easy to use and install
-  Environment friendly



S3000



S4000



S6000



M1000



M3000



Connect WiFi

Specifications

Device Name	Homaya Pro M3000
Part number	AEH-SP01-M3000
Electrical specifications	
Nominal battery voltage	48 V
Battery voltage operating range	40 V – 62.8 V
PV input voltage range (Vmp)	60 V to 120 V
Max. PV array open circuit voltage (Voc)	130 V
Max PV withstanding voltage	200 V
Max. array short-circuit current	60 A @ STC
Max PV array rating	3200 W
Max. charge current	60 A
Max. output power	3100 W
Charger regulation method	Three-stage (bulk, absorption, float), Two-Stage (LFP)
Supported battery types	Flooded, GEL, AGM and LiFePo4
Efficiency	
Max power conversion efficiency	95%
Maximum tracking efficiency	99%
General Specification	
Power consumption (stand by)	≤ 3 W
Enclosure material	Sheet metal chassis, Aluminum heat-sink
IP degree of protection	IP 20
Product weight	2.7 kg
Product dimension	255 x 166 x 94
Shipping weight	3.1 kg
Shipping dimensions (H x W x D) in mm	325 x 235 x 165
Device mounting	Vertical wall mount, Table mount
Ambient air temperature for operation	-15 °C to 40 °C
Storage temperature range	-25 °C to 60 °C
Operation humidity	5% to 95% RH
Altitude	2000 m
Features	
Display type	Graphical LCD
Communication ports	RS 485 Port / BMS
Cooling	Forced air, Constant speed fan
Regulatory approvals	
Safety	IEC 62109-1, IEC 62109-2
EMI / EMC directive	IEC 61000-6-2, -6.4
Certifications	CE, RoHS, SONCAP
Compatible products part numbers	
Homaya Pro	AEH-SP01-S4000 and AEH-SP01-S6000

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