

Power all your off-grid and unreliable grid needs with reliable, affordable and clean electricity

Homaya Pro 4 kW and 6 kW



Homaya Pro is a solar-hybrid solution specifically designed for locations having unreliable or no access to electricity. It provides customizable, reliable and renewable energy access for homes, fuel stations, small offices, healthcare centers, educational institutions and telecom towers.



Homes



Micro enterprises



Healthcare centers



Telecom towers

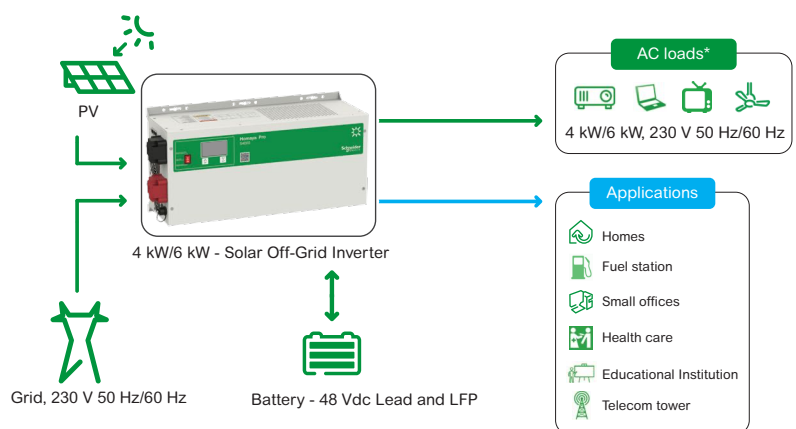


Educational institutions

Unique features

- Supports 9 profiles of lead acid battery charging
- Inbuilt Maximum Power Point Tracking charging mode
- Robust transformer-based design
- Supports productive needs including domestic pumping solution
- Connect inverters in parallel to support loads upto 24 kW
- Compatible with LFP and customizable lead acid charging profile

Homaya Pro is powered from solar with an inbuilt MPPT controller, compatible with grid charging, supports lead or lithium battery technologies. Up to 6 inverters can be connected in parallel for a combined output up to 24 kW.



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Specifications

Device Name	Homaya Pro S4000 (AEH-SP01-S4000)	Homaya Pro S6000 (AEH-SP01-S6000)
Inverter AC output		
Output power (continuous) up to 40°C	4000 W / 4000 VA	6000 W / 6000 VA
Overload 15 min / 60 Sec at 25 °C	5000 W / 6000 W	7500 W / 9000 W
Surge rating for 10 Sec	35 A	52 A
Maximum output current 60 seconds (rms)	26 A	39 A
Output current (continuous) at 40 °C	17.4 A	26.1 A
Output frequency (selectable)	50/60 Hz (±0.3 Hz)	50/60 Hz (±0.3 Hz)
Output voltage	L-N: 230 V +/- 10%	L-N: 230 V +/- 10%
Output voltage waveform	Sinewave	Sinewave
Idle power consumption	<25 W	<25 W
Input DC voltage range	40 V to 64 V (48 V nominal)	40 V to 64 V (48 V nominal)
Maximum input DC current	125 A	188 A
Motor load	Up to 3HP	Up to 4HP
Scalability	Up to 6 inverters in parallel, 1-Ph, 230 V	Up to 6 inverters in parallel, 1-Ph, 230 V
MPPT Charger DC output (Solar Input)		
Maximum output charge current	60 A	60 A
Maximum output power	3000 W	3000 W
Output charge voltage range	40 V – 62.8 V (48 V nominal)	40 V – 62.8 V (48 V nominal)
Charge control	Three stage (Lead) and two stage (LFP)	Three stage (Lead) and two stage (LFP)
Compatible battery types	Flooded, Gel, AGM, LiFePo4	Flooded, Gel, AGM, LiFePo4
PV input voltage range (Vmp/Voc)	80 V to 250 V DC	80 V to 250 V DC
PV maximum voltage	300 V DC	300 V DC
PV Input maximum power (Wp)	3200 W	3200 W
Tracking efficiency	99%	99%
AC Charger DC Output		
Maximum output charge current	35 Amps	50 Amps
Output charge voltage range	40 V to 62.8 V (48 V nominal)	40 V to 62.8 V (48 V nominal)
Charge control	Three stage (Lead) and two stage (LFP)	Three stage (Lead) and two stage (LFP)
AC input		
AC (grid) input current max	40 A	40 A
Automatic transfer relay rating/typical transfer time	40 A / < 10 mS	40 A / < 10 mS
AC input voltage range	L-N: 165 V - 265 V	L-N: 165 V - 265 V
Frequency	50 Hz/ 60 Hz (Auto detection)	50Hz/ 60Hz (Auto detection)
AC input frequency range (bypass/charge mode)	47±0.3 Hz ~ 55±0.3 Hz for 50 Hz; 57±0.3Hz ~ 65±0.3Hz for 60Hz;	47±0.3Hz ~ 55±0.3Hz for 50Hz; 57±0.3Hz ~ 65±0.3Hz for 60Hz;
Efficiency		
Inverter efficiency peak	91%	91.5%
MPPT efficiency peak	95%	95%
General specifications		
Part number	AEH-SP01-S4000	AEH-SP01-S6000
Product weight / Shipping weight	28 kg / 29.6 kg	31 kg / 33 kg
Product dimensions in mm (H x W x D)	563.5 x 264 x 183.3	608.5 x 264 x 183
Shipping dimensions in mm (H x W x D)	680 x 385 x 305	730 x 385 x 305

Device short name	Homaya Pro S4000 (AEH-SP01-S4000)	Homaya Pro S6000 (AEH-SP01-S6000)
General specifications		
Mounting option	Wall mount or Table mount	
IP degree of protection	IP 20, Recommended for indoor usage	
Operating air temperature / Humidity range	-15 °C to 40 °C / 5% to 95% RH	
Storage temperature	-25 °C to 60 °C	
Altitude	2000 Meters	
Features		
System monitoring	Local Monitoring with Wi-Fi dongle (Optional)	
Intelligent features	Battery priority (Bill Saver) mode operation and Grid priority mode operation, Remote wired inverter ON/OFF, LFP battery supported with BMS port integrated	
Communication ports	RS485 -1 for BMS (LFP battery) RS485-2 for Wi-Fi dongle	
Front LCD Display	Displaying power flow, Configuration of parameters locally, displaying system status	
MPPT Scalability	Compatible with external MPPT charger AEH-SP01-M3000	
Protection		
Overload (Inverter mode)	Shutdown output after 15 minutes; 110% -125%, Shutdown output after 30 Sec to 60 Sec: 125% - 150% Shutdown output after 10 Sec to 20 Sec: >150%	
Output short-circuit (Inverter mode)	Yes	
Over temperature	Yes	
Overload (AC bypass mode)	Yes > 40 A	
Regulatory approval		
Safety	IEC 62109-1, IEC 62109-2	
EMI / EMC directive	IEC 62040-2	
Certification	CE, RoHS, SONCAP	
Optional Accessory		
Local wireless monitoring	Wi-Fi Dongle	

Note: Expandability of back-up time especially in Off-grid conditions can be done with higher batteries and more solar panels arrays using external MPPT AEH-SP01-M3000.

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