

Specifications

Device Name	Homaya Pro S3000 (AEH-SP01-S3000)
Inverter AC output	
Output power (continuous) up to 40°C	3000 W / 3000 VA
Overload 15 min / 60 Sec at 25 °C	3750 W / 4500 W
Surge rating for 10 Sec	26 A
Maximum output current 60 seconds (rms)	19.5 A
Output current (continuous) at 40 °C	13.0 A
Output frequency	50 Hz ± 0.3 Hz (when connected off-grid)
Output voltage	L-N: 230 V +/- 10%
Output voltage waveform	Sinewave
Idle consumption	< 25 W
Input DC voltage range	20 V to 32.0 V (24 V nominal)
Maximum input DC current	188 A
Motor load	Up to 2HP
MPPT Charger DC output (Solar Input)	
Maximum output charge current	45 A
Maximum output power	1100 W
Output charge voltage range	20 V – 31.4 V (24 V nominal)
Charge control	Three stage
Compatible battery types	Flooded, Gel, AGM
PV input voltage range (Vmp/Voc)	30 V to 72 V DC
PV maximum voltage	80 V DC
PV Input Maximum Power (Wp)	1200 W
Tracking efficiency	98%
AC Charger DC Output	
Maximum output charge current	50 Amps
Output charge voltage range	20 V – 31.4 V (24 V nominal)
Charge control	Three stage
AC input	
AC (grid) input current max	30 A
Automatic transfer relay rating/typical transfer time	30 A / < 10 ms
AC input voltage range	L-N: 165 V – 265 V
Frequency	50 Hz/ 60 Hz (Auto detection)
AC input frequency range (bypass/charge mode)	47±0.3 Hz ~ 55±0.3 Hz for 50 Hz; 57±0.3 Hz ~ 65±0.3 Hz for 60 Hz;
Efficiency	
Inverter efficiency peak	90%
MPPT efficiency peak	97%
General specifications	
Part number	AEH-SP01-S3000
Product weight / Shipping weight	25 kg / 26.4 kg
Product dimensions in mm (H x W x D)	476.5 x 264 x 183
Shipping dimensions in mm (H x W x D)	565 x 360 x 305
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

Device short name	Homaya Pro S3000 (AEH-SP01-S3000)
General specifications	
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
Communication ports	RS485 for Wi-Fi dongle
Front LCD Display	Charger Current Setting - Configurable
MPPT Scalability	Compatible with external MPPT charger AEH-SP01-M1000
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)	> 30 Amps*
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

* Use recommended external MCB or Fuse

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-M1000

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