

Life Is On

Schneider
Electric

Homaya Hybrid 850 / 1500

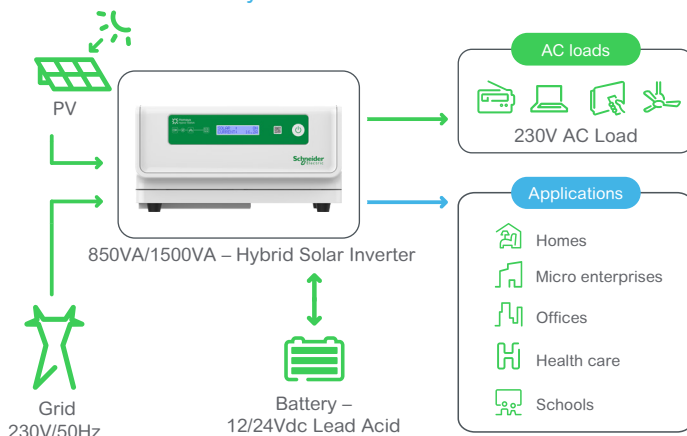
Clean and reliable energy
available at any time

Homaya Hybrid
850

Homaya Hybrid
1500

Homaya Solar Hybrid Home System range is designed to provide access to clean and reliable energy with less dependency on the grid supply. It has an inbuilt intelligence system to prioritize solar energy over the grid supply thereby saving electricity bills

System Architecture



Benefits:



Reliable power



Reduce energy bill



Smart battery management



Recycled and Reusable packaging



Diesel alternative

Features



Compatible with different battery types
(Tubular, Flat plate, GEL/VRLA battery)



Robust transformer-based design



Intelligent Solar prioritization



Built-in heavy duty solar charge controller



3 User selectable battery charge modes
(Solar, Solar+Grid, Grid+Solar)



UPS mode for critical appliances



Pure sine wave output



Wide grid operating voltage range



Intuitive LCD Display (Available in 1500VA)

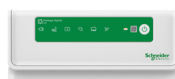


Table 1 - Technical Specifications

Device Name	Homaya Hybrid 850 (AEH-SHY02-0850)	Homaya Hybrid 1500 (AEH-SHY02-1500)
Product VA rating	850 VA	1500 VA
Battery Input Voltage (Vdc)	12V	24V
Battery Type	Tubular / Flat plate / Gel or VRLA	
Solar PV Input		
Maximum PV Array Power	850 Wp	1500 Wp
Input Voltage range	18V - 25V Voc	36V - 60V Voc
AC Input		
Grid High Voltage Disconnect	290V +/- 10V	290V +/- 10V
Grid High Voltage Reconnect	280V +/- 10V	280V +/- 10V
Grid Low Voltage Disconnect	90V +/- 5V	90V +/- 5V
Grid Low Voltage Reconnect	105V +/- 5V	105V +/- 5V
AC Output (Inverter mode)		
Output Frequency	50 Hz +/- 0.5Hz	50 Hz +/- 0.5Hz
Output Waveform	Pure Sine Wave	Pure Sine Wave
Protections	Short Circuit, Overload, High Temperature, Low Battery, No Load Shutdown (User selectable)	
User Selectable Switches		
Charging mode	Solar / Solar+Grid / Grid+Solar	
General		
Dimensions (LxWxH) (mm)	320x313x138 (LxWxH) (mm)	320x322x165 (LxWxH) (mm)
Net Weight (Kg.)	11.8 Approx	17.1 Approx
Gross Weight (Kg.)	13.0 Approx	18.5 Approx
Visual Indications	LED Indications	LCD Display

Table 2 - Minimum Solar Panel and Battery Configuration: Lighting and Basic Appliances⁽¹⁾

Sl.No	Inverter model	Solar Panel		Battery		Backup calculation			Approx. Roof Top Area Required (Sq. ft)
		Wp	Configuration	Ah	Configuration	Approx. Load (W)	Load Configuration (Quantity) ⁽³⁾	Duration (Hrs) ⁽²⁾	
1	Homaya Hybrid 850	105Wp	2 in Parallel	100Ah	1 No	150	LED (5) + Tubelight (1) + Fan (1)	3.5 to 4	25
2		170Wp	2 in Parallel	150Ah	1 No	200	LED (4) + Tubelight (1) + Fan (2)		35
3		170Wp	3 in Parallel	200Ah	1 No	250	LED (5) + TV LCD (1)		50
4		105Wp	4 in Parallel						40
5		300Wp	2 in Parallel	100Ah	2 in series	300	LED (4) + TV LCD(1) + Fan (1)		60
6	Homaya Hybrid 1500	330Wp	2 in Parallel	150Ah	2 in series	400	LED (4) + Tubelight (1) + TV LCD (1) + Fan (2)	70	
7		330Wp	3 in Parallel	200Ah	2 in series	500	LED (4) + Tubelight (2) + TV LCD (1) + Fan (3)	100	

Table 3 - Minimum Solar Panel and Battery Configuration: Induction Cooktop⁽¹⁾

User Segment	Inverter Model	Induction Cooktop (3)	Cooking Duration (4)	Solar Panel		Battery		Approx. Roof Top Area Required (Sq. ft)
				Wp	Configuration	Ah	Configuration	
Off-Grid	Homaya Hybrid 1500	1000W	2 Hrs	330Wp * 3NO	3 in Parallel	150Ah * 2NO	2 in Series	100
			2.5 Hrs	330Wp * 4NO	4 in Parallel	200Ah * 2NO	2 in Series	130
Un-Reliable Grid			1.5 Hrs	350Wp * 1NO	-	100Ah * 2NO	2 in Series	35
			2.0 Hrs	350Wp * 1NO	-	150Ah * 2NO	2 in Series	35

(1) Recommended configuration. Flexible to change within specified limit.

(2) Indicative only. Actual backup hours will change depending on battery condition / nature of connected loads.

(3) Appliances are not part of this offer. Assumed Loads: LED Bulb (10W), Tubelight (40W), TV LCD (200W), Fan (60W), Induction cooktop (1000W).

(4) 1 hour of day cooking (considering a sunny day with 5kWh) is supported by Solar, remaining hours by a fully charged battery.