

Specification of Solar Home system (HomePower 40)

Classification	Model 1	Model 2	Model 3	Model 4
General				
Application	Solar PV Home systems, RV systems, Village electrification, Standby light source			
Use	Indoor			
Duty Cycle (Hours)	3-4	1-2	~3	~3
Number of days of autonomy	3 days			
System Voltage	12V DC			
Applicable specification	MNES (Model-2 & Model-3)		Manufactures Spec.	
System components				
Solar PV Module				
Module type	Mono / Poly Crystalline silicon			
Open circuit voltage	>/= 21V			
Module Mounting Frame	Provided			
Material	Galvanised iron frame			
Module power @ 16.4V @STC	37Wp		40Wp	
Battery				
Type	Flooded Lead Acid (Tubular)		Flooded Lead Acid (Tubular) or VRLA-SMF Lead Acid	
Battery Voltage	12V			
Battery capacity @ C/10	40Ah tubular		Tubular-40Ah/VRLA-42Ah	
Battery Box	Provided			
Material	MS sheet, Powder coated			
Indoor Lighting Luminary				
Model	ILL-09123C/ILL-11123A		ILL-09123C	
Number of luminaries	2	1	2	3
Lamp Type	Compact Fluorescent Lamp (CFL), 4 Pin, Single U			
Lamp wattage	9/11W		9W	
Rated Light output (Lumens)	600/900 ± 5%		600 ± 5%	
Lamp colour temperature	5200K (Day Light)			
Light coverage	> 180 Deg			
Rated Lamp life (Average)	> 8000 Hrs			
Light output degradation after 1000 ON/OFF (2 min ON & 4 min OFF)	< 8%			
Nominal working voltage	12V DC			
Inverter efficiency	> 82%			
Power consumption @12VDC Input	9.9W / 13.2W ± 10%		9.9W ± 10%	
Protections	Reverse polarity and overload protections provided			
Fixing	Wall mounting with screws, CF Lamp in base up configuration			
Connecting wire entry	Terminal connectors			
Case	Injection Moulded Engineering Plastic (ABS)			
Light Diffuser	UV stabilised, Non yellowing Acrylic			
Reflector	Highly reflective anodised aluminium			
Charge controller				
Model	SCC-M0306A			
Charge controller type	Series pulse with two step charging			
Temperature compensation	Provided			
Charging current	3A			
Load current	6A			
Charge controller efficiency	>92%			
Idle consumption	<5mA			
Indications	Low battery and Charging			
Protections	Overcharge, Deep discharge, reverse battery & module reverse current flow			
Fixing	Wall mounting with screws			
Case	Injection Moulded Engineering Plastic (ABS)			

DC Fan				
Nominal Voltage	Nil	12V	Nil	
Rated Power	Nil	</= 15W	Nil	
Radio Out				
Nominal Voltage	Nil		12VDC	
Rated Power	Nil		</= 6W	
Load Centre				
Connectors	Heavy duty terminal connectors			
Current rating	10A			
Case	Injection Moulded Engineering Plastic			
No. Of. Terminals (+ve and -ve)	4 Each			
TV Out Socket (Portable B&W)	Optional (Purchased separately)			
Nominal Voltage	12VDC			
Rated Power	</= 20W			
Connecting cable				
Module to charge controller	5 Mtrs (1.5 mm ² with fork terminals)			
Battery to Charge controller	0.4 & 0.65 Mtrs (1.5 mm ² wire with ring and fork terminals)			
Charge controller to load Centre	0.2 Mtrs (1.5 mm ² wire with fork terminals)			
Load centre to luminary	5 Mtrs (1 mm ² parallel wire with fork terminals)			
Options				
Luminary (Lamp)	With 7W / 9W / 11W CF Lamp			
Lamp colour temperature	As per customer requirement for order quantities more than 1000 Numbers (2700K/6000K)			
TV out socket	Will provide as per customer requirement			
Colour of cases	As per customer requirement for order quantities more than 1000 Numbers			
Printing on cases and box	As per customer requirement for order quantities more than 1000 Numbers			
Ordering Information				
With Flooded Lead Acid (Tubular)	SHS-12040A	SHS-12040B	SHS-12040C	SHS-12040D
With VRLA SMF Lead Acid	Nil		SHS-12040E	SHS-12040F

Note: 1. For more details regarding products, refer product specification
2. Specifications subject to change without notice. Check for latest update