

13. Hybrid solar home system

Training objectives

- Understand and master the working principles and overall functionality of the Hybrid Solar Home System.
- Understand the sizing of the Hybrid Solar Home System based on customer requirement.
- Install, operate, and maintain Hybrid Solar Home System.
- Diagnose and troubleshoot the problems during and after the installation of a Hybrid Solar Home System.
- Learn Battery Maintenance and perform maintenance of solar lead acid battery.



Description

Contents	
Description	Quantity
Solar Panel, 12 V, 100 Wp	1
Module Mounting Structure	1
Hybrid Inverter, 850 VA, 12 V	1
Trolley (For Inverter)	1
Battery, 12 V, 100 Ah	1
Battery connectors (Ring lugs)	1
DC Loads - LED Lamp, 12 V, 2.5 W	1
DC Loads -DC Fan, 12 V, 15 W	1
DC Loads -DC Television, 12 V, 20 W	1
AC Loads - CFL Lamp/ LED Bulb, 230 V, 11 W / 230 V, 9 W	1
AC Loads - AC LED Television, 230 V, 55 W	1
AC DB with MCB, 230 V, 16 A, AC 2-Pole, C-Curve	1
Switchboard, 3-Module, 16 A	1
Switchboard, 6-Module, 6 A	1
Connecting wires	1
Accessories - PVC pipe fittings	1
Accessories - Nuts, bolts, etc ..	1

References	
Description	Reference No.
Hybrid solar home system	AET-P01-SHH