

HYBRID PACKAGES

Load shedding Back up to 12 Hours (not continuous)

PACKAGE	LOAD	PRICE
SS 50	1 ceiling fan , 2 lights	26000/-
SS 100	2 ceiling fan, 4 lights	45000/-
SS 150	3 ceiling fan , 6 lights	78000/-
SS 200	4 ceiling fan, 8 lights	115000/-
SS 300	6 ceiling fan, 12 lights	135000/-

Hybrid System

Hybrid Systems - Utility Connected with Battery Backup for the night use. This is the cheaper solution against Load shedding A combination of the below . This system is connected to the utility grid in case the weather is insufficient for the solar system, but they also have batteries to store electricity in case the utility grid goes down as well (Load-shedding). In this system batteries are fed with solar power as a primary source and will charge the batteries from utility (Wapda) as a second choice (if required) or in the night if battery bank is consumed during the day time. This is the most effective in providing constant, reliable and cost effective electricity.

System includes:

1. PV Array: A number of PV panels connected in series and/or in parallel giving a DC output out of the incident irradiance. Orientation and tilt of these panels are important design parameters, as well as shading from surrounding obstructions.
2. Connection to utility grid.
3. Solar controller: control battery bank charge and discharge reasonable and safety.
4. Battery bank: can be a single battery or multiple batteries connected together to create essentially one large battery of the required voltage and amp-hour capacity. In some ways the battery configuration and capacity are the most important electrical power decision to make, and a wise choice can help guarantee a steady supply of electrical power as well as a system that is simple to operate and maintain
5. Inverter: A power converter that "inverts" the DC power from the panels into AC power

Suitable For : Load shedding

PACKAGE DETAILS

Package	Solar PV Panels	Charge Cont.	Inverter Sine Wave	Dry Battery
SS 50	50 Watt	5Ah	600VA	40 Ah
SS 100	100 Watt	10Ah	600VA	100 Ah
SS 150	150 Watt	12Ah	1000VA	200 Ah
SS 200	200 Watt	12Ah	1000VA	300 Ah
SS 300	300 Watt	16Ah	1500VA	400 Ah

ASSUMPTIONS
Ceiling fan = 100 W
Light = 18 W CFL
Fan can be replaced with LCD TV
Sunshine hours = 10 hrs / day

DC Packages

MODEL	LOAD	BACKUP (Continuous)	PRICE
DC12	1 Pedestal fan + 1 LED lights	12 Hrs	19000/-
DC24	1 Pedestal fan + 2 LED lights	24 Hrs	27000/-

- All prices inclusive of GST
- Installation, fittings and transport not included