

Daily use reference average 5-6hours



Name of load	Power	Working hours	Consumption
COLOR TV	2X120W	8HOURS	1920WH
DVD PLAYER	50W	8HOURS	400WH
COMPUTER	2X150W	4HOURS	1200WH
LIGHTING	150W	8HOURS	1200WH
COOLING FAN	3X80W	12HOURS	2880WH
FRIDGE	120W	24HOURS	1440WH
WASHING MACHINE	300W	1HOURS	300WH
WATER PUMP	500W	2HOURS	1000WH
HAIR DRIER	500W	0.5HOURS	250WH
AIR CONDITIONER	3 x 2.5HP (6000W)	8HOURS	48000WH
PRINTER	150W	1HOURS	150WH
FAX MACHINE	100W	1HOURS	100WH
PROJECTOR	300W	3HOURS	900WH
MICRO OVEN	1000W	1HOURS	1000WH
ELECTRIC KETTLE	500W	1HOURS	500WH
ELECTRIC DRILL	200W	1HOURS	200WH
ELECTRIC COOKER	300W	1HOURS	300WH
COFFEE MAKER	500W	2HOURS	1000WH
OPTIONAL OTHER HOME APPLIANCE			
TOTAL LIMITED	12000W	Average 5hours	60000WH

System design according to loading power and backup time

Item	Specification	PR-SHS12000
Solar Panel	Max. power @ STC (pm)	11700Wp Solar panel
		260Wp x 45pcs
		9pcs series, 5series parallel
	Max. charging voltage	317.7V
PRNZ-CL Inverter & solar controller	Max. charging current	36.85A
	Inverter type	Moduler low frequency pure sine wave
	Inverter phase	Single phase
	Inverter output power	12000W
	Inverter output voltage	220V / 50Hz
	System DC voltage	220V DC
	Controller charge current	75A
ALL IN ONE DESIGN (Inverter/Controller/PV Combiner/Distribution box)		
Battery	Type	Deep cycle or GEL or Lead carbon
	System DC voltage	220V DC
	Capacity	110pcs 2V 400Ah
Environment	Temperature	- 20°C ~ +55°C
Packing (CBM / KG)	Solar panel	6.5CBM / 1000KGS
	Solar control inverter	1.75CBM / 120KGS
	Deep cycle battery	2.2CBM / 3200KGS
	Whole system	10.45CBM / 4320KGS



Applicable scope

