

Daily use reference average 5-6hours



Name of load	Power	Working hours	Consumption
COLOR TV	4 x 150W	8HOURS	4800WH
DVD PLAYER	4 x 50W	8HOURS	1600WH
COMPUTER	2 x 300W	4HOURS	2400WH
LIGHTING	500W	8HOURS	4000WH
COOLING FAN	6 x 120W	12HOURS	8640WH
FRIDGE	2 x 150W	24HOURS	2880WH
WASHING MACHINE	300W	1HOURS	300WH
WATER PUMP	2000W	2HOURS	4000WH
HAIR DRIER	1000W	0.5HOURS	500WH
AIR CONDITIONER	4 x 3HP (10000W)	8HOURS	80000WH
PRINTER	2 x 150W	1HOURS	300WH
FAX MACHINE	200W	1HOURS	100WH
PROJECTOR	300W	3HOURS	900WH
MICRO OVEN	1000W	1HOURS	1000WH
ELECTRIC KETTLE	2 x 500W	1HOURS	1000WH
ELECTRIC DRILL	200W	1HOURS	200WH
ELECTRIC COOKER	300W	1HOURS	300WH
COFFEE MAKER	500W	2HOURS	1000WH
OPTIONAL OTHER HOME APPLIANCE			
TOTAL LIMITED	32000W	Average 5hours	160000WH

System design according to loading power and backup time

Item	Specification	PR-SHS32000
Solar Panel	Max. power @ STC (pm)	31320Wp Solar panel
		290Wp x 108pcs
		9pcs series, 12series parallel
	Max. charging voltage	324.9V
PRNZ-CL Inverter & solar controller	Max. charging current	96.48A
	Inverter type	Moduler low frequency pure sine wave
	Inverter phase	Single phase
	Inverter output power	32000W
	Inverter output voltage	220V / 50Hz
	System DC voltage	220V DC
Controller charge current		
150A		
ALL IN ONE DESIGN (Inverter/Controller/PV Combiner/Distribution box)		
Battery	Type	Deep cycle or GEL
	System DC voltage	220V DC
	Capacity	110pcs 2V 1000Ah
Environment	Temperature	- 20°C ~ +55°C
Packing (CBM / KG)	Solar panel	16.2CBM / 2800KGS
	Solar control inverter	3.5CBM / 220KGS
	Deep cycle battery	5.1CBM / 7040KGS
	Whole system	24.8CBM / 10060KGS



Applicable scope

