

Daily use reference average 5-6hours



Name of Load	Power	Working Hours	Consumption
TV	2X120W	8hours	1920Wh
COMPUTER	2X150W	4hours	1200Wh
LIGHTING	300W	8hours	2400Wh
FAN	3X80W	12hours	2880Wh
FRIDGE	120W	24hours	1440Wh
WASHING MACHINE	300W	1hours	300Wh
WATER PUMP	1000W	2hours	2000Wh
HAIR DRIER	500W	0.5hours	250Wh
AIR CONDITIONER	3HP (2500W)	8hours	20000Wh
PRINTER	150W	1hours	150Wh
FAX MACHINE	100W	1hours	100Wh
PROJECTOR	300W	3hours	900Wh
DVD PLAYER	50W	3hours	150Wh
TOTAL	6100W		33690Wh



System design according to loading power and backup time

Item		PR-SHS6000
Solar Panel	Maximum power at STC(pm)	6000W Solar Panel (24pcs x 250W, 2pcs series, 12strings parallel)
	Max. system charging voltage	60.8V
	Max. system charging current	99.12A
PRNZ-C Inverter & Solar Controller	Inverter Type	Pure sine wave with utility charger
	Inverter output power	7000W
	Inverter output voltage	220V / 50Hz
	System DC Voltage	48V
	Controller discharge current	180A
PV Combiner box with lightning protection		12 way in 3way out
Battery	Type	Deep Cycle or GEL
	System Voltage	48V
	Capacity	12pcs 12V 260Ah
Operating Temperature		-20°C ~ +55°C
Packing (CBM / KG)	Solar panel	3.0CBM / 560KGS
	Control box	1.75CBM / 100KGS
	Battery	1.0CBM / 900KGS
	Whole System	5.75CBM / 1560KGS

