

Daily use reference average 5-6hours



Name of Load	Power	Working Hours	Consumption
TV	2X120W	6hours	1440Wh
COMPUTER	2X100W	4hours	800Wh
LIGHTING	100W	6hours	600Wh
FAN	2X80W	12hours	1920Wh
FRIDGE	120W	24hours	1440Wh
WASHING MACHINE	300W	1hours	300Wh
WATER PUMP	300W	2hours	600Wh
TOTAL	1420W		7100Wh



System design according to loading power and backup time

	Item	PR-SHS1500
Solar Panel	Maximum power at STC(pm)	1500W Solar Panel (6pcs 250W, 2pcs series, 3strings parallel)
	Max. system charging voltage	60.8V
	Max. system charging current	24.78A
Inverter	Inverter Type	Pure sine wave with utility charger
	Continuous output power	1600W
	Output voltage / Frequency	220V / 50Hz
Charge Controller	System Voltage	48V
	Rated discharge current	45A
Solar controller & inverter inbuilt together		
Battery	Type	Deep Cycle or GEL or Lead Carbon
	System Voltage	48V
	Capacity	4pcs 12V 200Ah
Operating Temperature		-20°C ~ +55°C
Packing (CBM / KG)	Solar panel	0.53CBM / 123.2KGS
	Control box	0.054CBM / 30KGS
	Battery	0.16CBM / 245KGS
	Whole System	0.744CBM / 398.2KGS

