

### Daily use reference average 5-6hours



Name of Load	Power	Working Hours	Consumption
TV	70W	4hours	280Wh
LAPTOP	60W	2hours	120Wh
LIGHTING	30W	6hours	180Wh
FAN	50W	6hours	300Wh
FRIDGE	80W	24hours	960Wh
TOTAL	290W		1840Wh



### System design according to loading power and backup time

	Item	PR-SAS300
<b>Solar Panel</b>	Maximum power at STC(pm)	300W Solar panel (4pcs 75W, 2pcs series, 2strings parallel)
	Max. system charging voltage	35.2V
	Max. system charging current	8.54A
<b>Inverter</b>	Inverter Type	Pure sine wave with utility charger
	Continuous output power	400W
	Output voltage / Frequency	220V/50Hz
<b>Charge Controller</b>	System Voltage	24V
	Rated discharge current	20A
<b>Solar controller &amp; inverter inbuilt together with battery cabinet with wheel</b>		
<b>Battery</b>	Type	Deep Cycle or GEL or Lead Carbon
	System Voltage	24V
	Capacity	2pcs 12V 100AH
Operating Temperature		-20°C ~ +55°C
<b>Packing (CBM / KG)</b>	Solar panel	0.16CBM / 40KGS
	Control box	0.24CBM /46KGS
	Battery	0.04CBM /62KGS
	Whole System	0.44CBM /148KGS

