

Daily use reference average 5-6hours



Name of Load	Power	Working Hours	Consumption
TV	2X120W	8hours	1920Wh
COMPUTER	2X150W	4hours	1200Wh
LIGHTING	150W	8hours	1200Wh
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	1HP (750W)	6hours	4500Wh
TOTAL	3100W		14690Wh



System design according to loading power and backup time

Item		PR-SHS3000
Solar Panel	Maximum power at STC(pm)	3000W Solar Panel (12pcs x 250W, 2pcs series, 6strings parallel)
	Max. system charging voltage	60.80V
	Max. system charging current	49.56A
PRNZ-C Inverter & Solar Controller	Inverter Type	Pure sine wave with utility charger
	Inverter output power	3200W
	Inverter output voltage	220V / 50Hz
	System DC Voltage	48V
	Controller discharge current	90A
PV Combiner box with lightning protection		6 way input, 2 way output
Battery	Type	Deep Cycle or GEL or Lead Carbon
	System Voltage	48V
	Capacity	8pcs 12V 200Ah
Operating Temperature		-20°C ~ +55°C
Packing (CBM / KG)	Solar panel	1.20CBM / 264KGS
	Control box	0.14CBM / 45KGS
	Battery	0.32CBM / 490KGS
	Whole System	1.66CBM / 799KGS



PV COMBINER BOX

