



5.0 kW Solar Power System

Ground Mount

Data Specifications

Energizing the Future



www.patriotsolargroup.com

Patriot Solar Group (PSG) manufacturing and engineering for the renewable world. We are committed to providing the highest quality products and service in the industry. Our dedicated sales, engineering, and operations staff keeps the customer and the environment at the forefront of their minds while creating a customized solution to fit your renewable needs. PSG will work hand in hand with you from the conception of the project until completion. If you are in the market for a renewable solution and want more than "just a supplier" look to PSG for your manufacturing and engineering needs.

All Patriot Solar mounts are designed to withstand high wind-loading. This gives Patriot the ability to offer our customers and installers, quality and peace-of-mind that the system will assemble together fast and efficient.



Features/Benefits:

- ▶ With weather changes (2 cloudy/rainy days each week), max power generated every day is 28kW
- ▶ Power consumption per day: 18kW
- ▶ Performance loss less than 10% within 10 years, less than 20% within 25 years
- ▶ Three year warranty on system and battery
- ▶ One year warranty on integrated inverter

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System Data

Component Description	Solar Panel	Battery	Integrated Inverter	DC Complex Box	Frame, Wire, etc.
Spec.	250 W	12v 200AH	300v/10kW	10kW	
Number	20pcs	25pcs	1	1	As actual need

Power Consumption Examples

Electrical Appliance	Model	Power Consumption	Number	Working Time Per Day	Power Consumption Per Day	Using Frequency
Lighting 1	Led Lamp	45Wx2	2	8	.648kWh	.9
Lighting 2	Led Lamp	22Wx6	6	8	.95kWh	.9
Lighting 3	Led Lamp	11Wx3	3	8	.237kWh	.9
Computer	Led Display	100Wx6	6	8	3.6kWh	1
Printer	Ink	30Wx2	2	2	.12kWh	1
Fax Machine	Ink	50Wx2	2	1	.2kWh	1
Color TV	29 in.	130W	1	6	.78kWh	1
Refrigerator	180L	160W	1	24	.768kWh	.2
Washing Machine		300W	1	1	.27kWh	.9
Microwave		1000W	1	.25	.15kWh	.6
Oven		2200W	1	2	2.2kWh	.5
Air Conditioner	1.5HP	1300Wx3	3	6	7.72kWh	.33
Other Appliances		150W	1	6	.297kWh	.33
Total		8.85kW			17.94kWh	

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