



10.0 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 7.14kW
- ▶ Power consumption per day: 63.2kW
- ▶ 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 400AH	20kW output 3-phase	20kW	
Number	40pcs	108pcs	1	1	As actual use

Power Consumption Examples

Electrical Appliance	Model	Power Consumption	Number	Working Time Per Day	Power Consumption Per Day	Using Frequency
Lighting 1	Led Lamp	45Wx8	8	8	2592Wh	.9
Lighting 2	Led Lamp	22Wx4	4	8	634Wh	.9
Machine 1		5500W	1	8	24200Wh	.55
Machine 2		3000W	2	8	26400Wh	.55
Other Appliances		2000W	1	8	5280Wh	.33
Air Conditioner	1.5HP	1300W	1	6	2574Wh	.33
Computer	LED display	100W	2	6	1080Wh	.9
Printer	ink	30W	1	1	27Wh	.9
Fax Machine	ink	50W	1	.5	25Wh	1
Other Appliances		100Wx2	2	6	296Wh	.33
Total		15628W			63208Wh	

For further information please contact:

Patriot Solar Group
1007 industrial Avenue
Albion, Michigan 49224 USA

Tel: (01) 517 629 9292
Fax: (01) 517 629 9296
info@patriotsolargroup.com

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