

Solar Electric Power Systems

Models: 110, 135, 210, 210X, 240, 480



General Features

The CDM Wireless SunSmart product line is a self contained 12/24 Vdc Solar Electric Power System designed for remote wireless surveillance applications. It is designed for quick installation, long term reliability and virtually no maintenance.

Each solar installation is slightly different due to specific power requirements and geographic location. If CDM Wireless does not already have a model designed to meet the requirements they will design one that will.

Designed for industrial applications, the SunSmart product line delivers exceptional performance in all weather conditions. All systems ship factory assembled, wired and include all hardware and accessories needed to install it on a utility pole.

The CDM Wireless solar electric power system provides up to 510 Amp Hours of power to operate equipment in the event of a temporary weather related, or other, adverse event. It includes an intelligent technology power system that will disconnect the battery from the wireless and security equipment in the event the voltage drops below 11.6 volts. As the batteries recharge, the system brings the devices back online. As the batteries recharge, the system brings the devices back online, significantly prolonging the life of the battery(s).

In addition to providing reliable power the SunSmart Series can be equipped with an optional Status and Alert module. The Status and Alert module provides real time measurements of the voltage output of the solar panel(s) and battery bank plus temperature data. The status can be in the form of a simple web based application or provide additional data and logging. Alerts can be sent via email or monitored by software such as Nagios or other network monitoring software.

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Hardware Specifications

	Model 110	Model 135	Model 210	*Model 210X	Model 240	*Model 480	Model XXX
Solar Panel (s)							
Pmax	54 watts	135 watts	210 watts	210 watts	240 watts	480 watts	Custom
Voc	21.7V	22.1V	33.2V	33.2V	36V	72V	Designed
Isc	3.31A	8.37A	8.58A	8.58A	8.96A	17.9A	For
Vpm	17.4V	7.7V	26.6V	26.6V	30V	60V	Customer
Ipm	3.11A	7.63A	7.90A	7.90A	8.0A	16.0A	
Dimensions	25.7"L	59.1"L	59.1"L	59.1"L	64.96"L	64.96"L	
	50"W	26.3"W	39"W	39"W	39.05"W	78.1"W	
	2.1"H	1.4"D	1.4"D	1.4"D	1.81"D	1.81"D	
Weight	22.0 lbs	28.7 lbs	40.8 lbs	40.8 lbs	42 lbs	84 lbs	
Wind Load	125 mph	125 mph	125 mph	125 mph	125 mph	125 mph	

Battery(s)	
Voltage	12vdc or 24vdc
Amps	255 AH (Model 210X is 510 AH)
Construction	AGM Deep Cell Solar
Dimensions	20.62"L x 10.95"W x 10.17"H
Weight	165 lbs

Smart Technology Power Controller	
Peak Efficiency	97.5%
Nom Battery Voltage	12 or 24 volts
Max battery Current	15Amps
Battery Voltage Range	7-36 volts
Max PV Open Circuit voltage	75 volts
Nominal Max PV input	200 watts @12v
Output Rating	15 Amps load control
Self Consumption	35ma
Transient Surge Protection	4 x 1500 Watts
Operating Temp	-40c to +60c
Electronic Protections	Overload, short circuit, high voltage, reverse polarity, battery, PV & load, lightning & transient surges, high temp, reverse current at night.

Weather proof battery box	
	Vented aluminum enclosure with side of pole mounting bracket system
	Dimensions 25"x18"x18"

Side of pole solar panel/battery mounts	
	5052 H32 Aluminum, cold roll steel and special high strength hot roll steel for top of pole braces, tilt plates and cross rails to stay in compliance with the 125 mph wind load rating

*Model 210X has 510AH Amps and (2) Batteries

*Model 480 has (2) Solar Panels