

# SunTelligent Product Line

## Solar Electric Power Systems



### General Features

The CDM Wireless SunTelligent custom product line are self-contained Solar Packs for remote wireless surveillance applications. They are available in 12, 24, 36 or 48 Volts DC. Integrated AC converters are available for applications that include equipment that is powered by 24 to 120VAC.

With Each solar installation being slightly different due to specific power requirements, geographic location and battery backup, CDM's engineering staff custom designs solar packs for almost any application.

Manufactured for commercial applications using the best available materials on the market, the SunTelligent product lines are engineered for quick deployment and 24/7/365 operation with virtually no maintenance. Systems ship factory assembled, wired, tested and include all hardware, batteries, controllers, enclosures, etc. Poles are not included.

The CDM Wireless Solar Pack includes an "intelligent technology" power system that will disconnect the battery from equipment in the event the voltage drops below 11.6 volts. As the batteries recharge, the system brings the devices back online, significantly prolonging the life of the battery(s).

In addition to providing uninterrupted power, the SunTelligent Series can be equipped with an optional Status and Alert module. This module provides real time measurements of the voltage output of the solar panel(s) and battery bank as well as 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.





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Models: 110, 135, 180-24, 210, 270, 480, xxx (xxx=custom design)

### Hardware Specifications

	Model 110	Model 135	Model 180-24	Model 210.	*Model 270	*Model 480	ModelXXX
Pmax	110 Watt	135 Watt	180 Watt	210 Watt	270 Watt	480 Watt	Custom
Voc	21.7V	22.1V	44.6V	33.2V	22.1V	72V	Designed
Isc	3.31A	8.37A	6.06A	8.58A	8.68A	17.9A	For
Vpm	17.4V	7.7V	36V	26.6V	17.7V	60V	Customer
Ipm	3.11A	7.63A	5.56A	7.90A	7.9A	16.0A	
Dimensions	25.7"L 50"W 2.1"H	59.1"L 26.3"W 1.4"D	55.9"L 39"W 1.8"D	59.1"L 39"W 1.4"D	59.06"L 26.3"W 1.8"D	64.96"L 78.1"W 1.81"D	
Weight	22.0lbs	28.7lbs	37.5lbs	40.8lbs	28.4 lbs	84 lbs	
WindLoad	125 mph	125 mph	125 mph	125 mph	125 mph	125 mph	

#### Battery(s)

Voltage	12vdc, 24vdc, 36Vdc, 48vdc
Amp Hours	Model Dependent
Construction	AGM Deep Cell Solar
Dimensions	Model Dependent
Weight	Model Dependent

#### Smart Technology Power Controller

Peak Efficiency	97.5%
Nom Battery Voltage	12, 24, 36, 48 Vdc
Max battery Current	Model Dependent
Battery Voltage Range	7-48 Volts
Max PV Open Circuit voltage	Model Dependent
Nominal Max PV input	Model Dependent
Output Rating	Model Dependent
Self Consumption	35ma
Transient Surge Protection	4x 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.

#### Weatherized battery box

Nema 3R Vented aluminum enclosure with side of pole/wall mounting bracket system  
Dimensions 25"x18"x18"

#### Side of pole solar panel mounts

5052 H32 Aluminum, for top of pole mounts cold roll steel and special high strength hot roll steel is used as well as tilt plates and cross rails to stay in compliance with the 125 mph wind load rating.

\*Model has (2) Solar Panels