

# 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.





## Solar Electric Power Systems Model: SunTel 255-180

### Hardware Specifications

Model SunTel 255-180

Pmax	255 Watt
Voc	37.6V
Isc	9.09A
Vmp	30.4V
Imp	8.39A
Dimensions	65.43"L 38.98"W 1.8"H
Weight	44.1 lbs.
WindLoad	125mph

#### Battery(s)

Voltage	12vdc x 4
Amp Hours	90 Amps.
Construction	AGM Deep Cell Solar
Dimensions	12.05" L x 6.6" W x 8..19" H
Weight	59.52 lbs. ea.

#### Smart Technology Power Controller

Peak Efficiency	97.5%
Nom Battery Voltage	13.6 – 13.8, Vdc.
Max battery Current	54 A @ 1 hr.
Battery Voltage Range	13.6 – 13.8 Volts
Max PV Open Circuit voltage	37.6 Vdc.
Nominal Max PV input	30.4 Vdc.
Output Rating	15 A
Self Consumption	22ma
Transient Surge Protection	1500 Watts
Operating Temp	-40c to +60c
Electronic Protections	Overload, short circuit, high voltage, reverse polarity, battery, PV & load, lightning & transient surges, high temp, Reversecurrent at night.

#### Weatherized battery box

Nema 3R Vented aluminum enclosure suitable for pole or wall mount.  
Dimensions 18"x30"x15"

#### Side of pole solar panel mounts

5052 H32 Aluminum for side of pole mount. Fortop 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.