## 235 Watt - Pole mounted solar

### power unit with sun Tracking

With 235 WATT solar panel and grid tie inverter



The ATR SPT-1010 Pole-mounted Solar Tracker system incorporates advanced communications & control technology and multiple patent-pending features to deliver distributed PV solar power at breakthrough levels of efficiency and reliability. Intelligent motion control, extremely robust actuation and supercapacitor technology come together to boost the energy yield of PV panels by 30+ % over fixedmount panels. Designed for easy, low-cost installation and able to withstand rigorous environmental conditions, this tracker system offers unparalleled ease in tapping the overlooked energy collection potential of lighting pole assets.

# Trackers make More Power

#### **Impressive Features**

30+ % energy gain from sun tracking Built-in grid-tied power inverter

- No batteries
- Automatic, precise calculation of sun position
- Never fooled by weather conditions

Real-time status and production reporting over the web Extremely low maintenance requirements

#### **Distributed Power Generation Made Easy:**

Retrofitable to most existing lighting poles Utilize existing utility wiring when possible Modular plug-and-play connection No ground space requirement Avoid the maintenance problems of roof mount systems

#### **Perfect For:**

- ✓ Business and commercial parking lots and walkways
- ✓ Municipal, State and Federal facility outdoor lighting
- $\checkmark$  Rural farm poles

Contributes to LEED points Operate as a grid-tied energy producer Eligible for American Recovery and Reinvestment Act (ARRA) energy projects

SPT-1010-235GT Pole mounted power unit With 235 WATT solar panel and grid tie inverter	existing poles and gird access
Electrical Characteristics   MOTECH 235 watt module   Power 235W   Type of cell polycrystalline silicon   Max Power Voltage 30.7 V   Max Power Current 7.7 A   Grid Tie inverter (EnPhase M215) Voltage output to grid   Voltage output to grid 208 or 240 VAC   Static MPPT efficiency 99.6%   Peak inverter efficiency 96.3%	Standard Installation Options Pole Mount Brackets Round pole - 4", 5", 6" diameter Square pole - 4", 5", 6" sides 1/2" Bolts for wooden poles Inverter AC installation Kits Ground Kits Banner Kits Web based performance and Analysis (Envoy communications)
Mechanical CharacteristicsDimensions (solar panel)65"h x 39.1"w x 1.97"dDimensions (mount and frame total envelope)48" h x 39"w x 48" dWeight (installed with solar panel)119 lbCoolingNatural ConvectionMounting2 "U" bolts with cradles(½" bolts for wood poles)	Tracking Control system   Microprocessor-based true position sun tracking   GPS enabled for automatic initialization   High accuracy tracking   Fail-safe return to due South   No batteries to replace   Efficient controller with low power consumption
Operating ConditionsHigh strength steel mount designed for max gust90 MPHTemperature operating range-40C to +65CSnow loadingless than 36" on panel	System Performance 30+ % improvement in energy collection +/- 60 degree collection sweep
Warranted against defects in material and workmanshipMount mechanism, controller, motor- 5 yr limited warrantyGrid-tied inverter- Manufacturers warrantySolar Panel- Manufacturers warranty	System Reliability Steel construction with powder coat surface treatment High reliability sealed actuator Steel gear transmission and bronze bushings No scheduled maintenance required
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