



# PT-20-10 SOLAR CHARGE CONTROLLER Advanced MPPT Support for Smaller PV Systems

### **Model Numbers**

• PT-20-10

# Works With

Works as a stand-alone controller using internal settings.

# Accessories & Options

 Evening or night light function pre-set in the factory or adjustable via the optional RC100 The Magnum Energy PT-20-10 Charge Controller by Sensata Technologies is an MPPT controller designed to work with all established module technologies and is optimized for grid-tied PV systems with module voltages higher than the battery voltage. The advanced MPP-tracking algorithm ensures maximum available power produced by the solar panels charges the batteries in any weather.

#### **Product Features**

- Maximum Power Point Tracker (MPP tracker)
- Voltage and current regulation
- Automatic load reconnection
- Temperature compensation
- Positive earthing of one or negative earthing of several terminals possible
- Monthly equalization charge
- Integrated light controller

# **Electronic Protection Functions**

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of module, load and battery
- Reverse polarity protection by internal fuse
- Automatic electronic fuse
- Short circuit protection
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Load disconnection on battery overvoltage

# PT-20-10 SOLAR CHARGE CONTROLLER SPECIFICATIONS

12 V (24 V) 250 W (500 W) 98.3 % (Ubatt=24 V; Uin=30 V; P=0.6*Pnom) 94.7 % (Ubatt=12 V; Uin=30 V); 96.7 % (Ubatt=24 V; Uin=30 V) 95.2 % 99.9 % (DIN EN 50530) 97.7 % (DIN EN 50530) 92.8 % 10 mA  15 V (30 V) < Umodule << 100 V 17 V to 100 V (34 V to 100 V)
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17 V to 100 V (34 V to 100 V)
10 A
12.5 V (25 V)
11.5 V (23 V)
20 A
13.9 V (27.8 V)
14.4 V (28.8 V)
14.7 V (29.4 V)
flooded
18 ADC
-13° F to 113° F (-25° C to +45° C) derating occurs above 77° F (25° C)
AWG 6 / 4 (16 mm² / 25 mm² )
IP 32
7.4" x 6.0" x 2.7" (187 mm x 153 mm x 68 mm)
7.8" x 6.2" x 2.9" (200 mm x 158 mm x 75 mm)
2 lb (900 g)
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# **OFFICES**

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4467 White Bear Pkwy St. Paul, MN 55110 USA

800-553-6418

Testing for specifications at 25° C. Specifications subject to change without notice.