APOLLO SOLAR
More Power To You

Remote Data Displays

Displays comprehensive status of PV Array, Controller, and Battery System

- **Battery State of Charge (SOC) displayed as Bar-Graph, % of Full and Amp-Hours Remaining.**
- **PV current and voltage**
- **Battery charge/discharge Amps**
- **Over a year of system history with an SD Memory Card (included)**
- **Use SD card data for PC graphs**

Wireless versions:

- **RD-100 Range is 100 ft (30m) indoors, or 300 ft (100m) line-of-sight**
- **RD-300 Range is 300 ft (100m) indoors, or 1 mile (1.6km) line-of-sight**
- **FCC approved**
- **Includes rechargeable batteries**

Wired version: RD-Wired

Low-cost serial data/power from the TurboCharger up to 1000 ft CAT5 wire

Wall-mountable Desktop enclosure

Transflective LCD with Backlight

Wireless and Wired Remote Displays

for T80 & T100 *TurboCharger*™ 80 & 100Amp Charge Controllers

Monitor the PV-Battery System from Anywhere

The Displays provide Battery-System Management in a convenient, portable package. See what the PV array, Charge Controller, Batteries, and Load are doing at any moment. You can also check the results for each day for the last year.

Battery Energy-Monitor Display Is Essential

The *TurboChargers*™ includes a built-in Energy Monitor using TriMetric™ Technology from Bogart Engineering. The monitor tracks power production and consumption, then calculates the energy remaining in the battery. State-of-Charge (SOC) is displayed in Percent Full, Amp-Hours, and Bar-Graph format, an easy-to read "gas gauge" essential for battery-based systems. The *TurboCharger*™ goes further by recording 90 days of historical data on energy production, usage, and number of days since fully charged. The Remote Display shows all the information at a glance in one convenient location, expanded to a year using the SD Memory Card.

Wireless Option Card for the *TurboCharger*™

The Wireless Option Card is installed in the *TurboCharger*™ Option Card slot comes with a chassis mount antenna.

Simple installation – No Set-Up or Programming

The wireless version couldn't be easier, just turn it on. The wired version is plug-and-play. Either Remote Display can be added to any *TurboCharger*™ in the field.

Wireless Version: RD-100 & RD-300

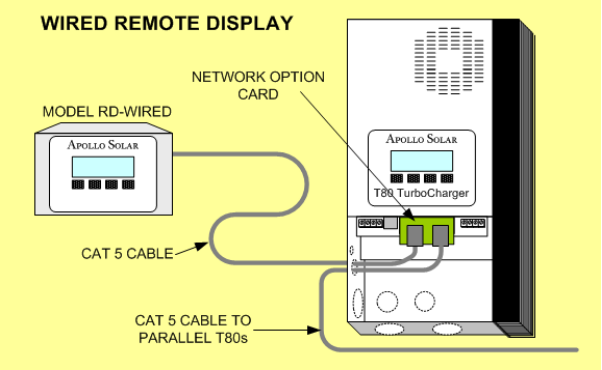
The wireless board includes internal antenna and rechargeable NiMH batteries with on-board charging. Charging input may be 12v to 24v DC or 115VAC using the plug-in wall transformer.

Wired Version: RD-Wired

The Network Option Card provides the data and power for the Remote Display utilizing CAT5 cable.

SPECIFICATIONS

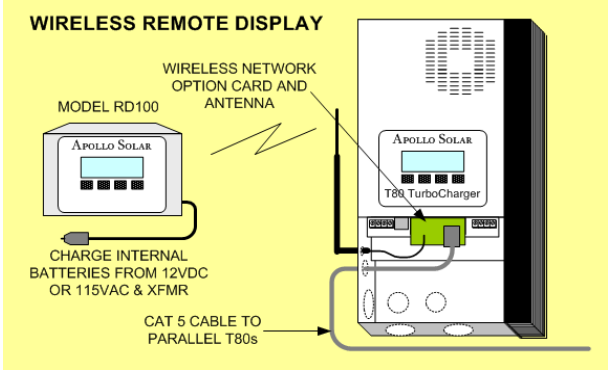
REMOTE DISPLAY – WIRED



CAT5 port on *TurboCharger*[tm] Network Option Card provides 12 volts to power the Remote Display.

Cable Type …….. CAT 5
Maximum cable length..…. 300m (1000 ft)

REMOTE DISPLAY – WIRELESS



Range: …RD-100 30m (100ft) in buildings
100m (300ft) line of sight

Range: …RD-300 100m (300ft) in buildings
1.6km (1 mile) line of sight

Charger Input…... 12VDC to 24VDC or
115VAC w/ transformer supplied

SPECIFICATIONS - Common to both Wired & Wireless Remote Displays

Display type ……	LCD 4 lines 20 characters Transflective with backlight
TurboCharger[TM] Data Displayed	SOC bar graph, SOC %, Amp-hours remaining, PV Input Voltage & Current, Battery Voltage & Current, Net battery charge / discharge current System charging history up to a year
Data Storage ……	A full year of data from up to 16 parallel TurboChargers.
Multiple Displays ……	Up to 16 Wireless or up to 2 Wired Remote Displays may be added to any TurboCharger or network of parallel TurboChargers.
Unit dimensions ……	18.5cm X 11cm X 6cm (7.3“ X 4.3“ X 2.4“) Width X Height X Depth
Shipping dimensions ……	28cm X 20cm X 18cm (11“ X 8“ X 7“)
Weight ……	RD-Wired: 318gm (12oz) RD-100, RD-300: 635gm (1.4lbs)
Environmental rating ……	Indoor Type 1 (Not intended for use in extremely damp locations)
SD Memory Card ……..	Up to 2.0 GB, FAT16 file format

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