

# TRISTAR Meters Digital Displays for TriStar Solar **Charge Controllers**



The TriStar Meter-2™ (TS-M-2), TriStar Meter-2-600V™ (TS-M-2-600V) and the TriStar Remote Meter-2™ (TS-RM-2) are advanced digital meters. They are nearly identical except that the TS-M-2 and TS-M-2-600V are mounted on the controller and the TS-RM-2 is flush mounted up to 30 meters away from the controller. The TriStar meters are 2 x 16 character LCD's that display system and controller information, logged data, bar graph metering, alarms and faults for easy troubleshooting. The information may be shown in English, French, German, Portuguese or Spanish. In multicontroller systems, these are networkable using Morningstar's MeterHub to allow individual controller data and aggregate system data to be displayed together on a single meter.

# Key Features and Benefits

### **Easy to install**

- Uses standard 6 conductor RJ-11 connectors
- TS-RM-2 fits a "double gang" electrical box and includes 30 meters (98.4 feet) of cable
- Both data and meterbus power flow over a single cable
- Network supports up to 15 devices and, optionally, more than one meter per system

#### Networking capability

- Displays individual controller data from up to 15 TriStars with optional Morningstar MeterHub
- Aggregates system data to show total charge, load and battery charge/discharge state
- Auto detects any device found on the network

# Easy to use

- Four directional pushbuttons for easy navigation of display screens
- Backlighting to enhance readability
- Meter may be added during initial controller installation, added as an upgrade anytime in the future or connected temporarily for troubleshooting with the ability to use this same meter at other sites

#### **TECHNICAL SPECIFICATIONS**

## **Electrical**

 Self-Consumption <0.5W 42.5 mA (backlight on)

powder coated steel

0.23 kg / 0.5 lb

0.18 kg / 0.4 lb

0.18 kg / 0.4 lb

RJ-11 (6-pin)

0.13 m / 5 in - 6 conductor

0.35 m/ 14 in - 6 conductor

30 m / 98.4 ft - 6 conductor

60°C rating

#### Mechanical

- 116 x 116 mm / 4.56 x 4.56 in TS-RM-2 Mounting Plate **Dimensions**
- Plate Material
- Weight
  - TS-M-2
  - TS-M-2-600V
  - TS-RM-2
- Connector Type
- TS-M-2 cable
- TS-M-2-600V cable
- TS-RM-2 cable
- Cable Temperature

## Environmental

 Ambient Operating Temperature LCD Temperature Rating -20 °C to +70 °C Storage Temperature Range -55 °C to +85 °C Humidity Tolerance 5 to 95 % (NC) Tropicalization Conformal Coating on both

-40 °C to +60 °C

sides of circuit board

Compatibility	TS-M-2	TS-M-2-600V	TS-RM-2	
<ul><li>TriStar</li></ul>	YES	NO	YES	
<ul> <li>TriStar MPPT</li> </ul>	YES	NO	YES	
<ul> <li>TriStar MPPT 600V</li> </ul>	NO	YES	YES	

## Certifications

- CE, RoHS and REACH Compliant
- ETL Recognized Component FCC Class B Part 15 Compliant
- ACMA-EMC Compliant
- Manufactured in a Certified ISO 9001 Facility



## Displays for TriStar Meter-2, TriStar Meter-2-600V and TriStar Remote Meter

Solar   Load   Solar   Charge   Control Diversion   Charge   Commands   Charge   Control Diversion   Charge   Commands   Charge   Control Diversion   Charge   Charge   Control Diversion			TriStar		TSMPPT*			TriStar		TSMPPT*
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	Mode of Operation	•	•	•		DIVERSION / III	_			



<sup>&</sup>lt;sup>1</sup> Logged data available on TriStars with software v13 or later

WARRANTY: Five year warranty period. Contact Morningstar or your authorized distributor for complete terms.

















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