



## TS4-A-O

### PV Module Advanced Add-On

The TS4-A-O (Optimization) is the advanced add-on optimization solution that brings smart module functionality to standard PV modules for higher reliability. Improve energy efficiency by upgrading underperforming PV systems or adding smart features to new installations.

The TS4-A-O with UHD-Core technology and expanded specifications supports PV modules up to 500W.

#### Included Features



Module-level **optimization** for increased energy yield and greater design flexibility



Manual or automatic module-level **shutdown**



Module-level **monitoring** for energy production tracking and system management

#### Easy Installation

Snap to standard module frame or remove brackets for rack mounting

#### Smart Commissioning

Configure and commission with your Android or iOS mobile device



# TS4-A-O SPECIFICATIONS

## Environmental

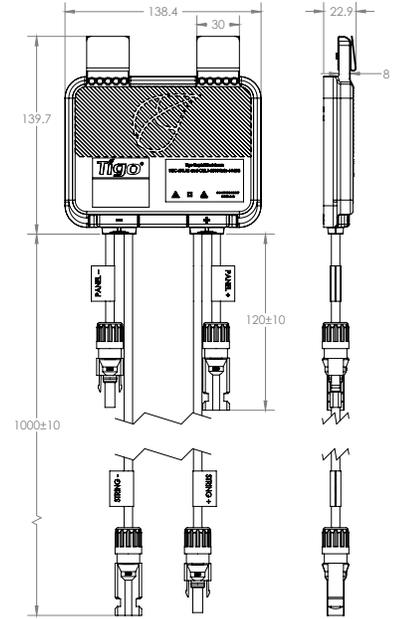
|                             |                                  |
|-----------------------------|----------------------------------|
| Operating Temperature Range | -40°C to +85°C (-40°F to +185°F) |
| Outdoor Rating              | IP68                             |
| Maximum Elevation           | 2000m                            |

## Mechanical

|            |                            |
|------------|----------------------------|
| Dimensions | 138.4mm x 139.7mm x 22.9mm |
| Weight     | 520g                       |

## Electrical

|  |                 |
|--|-----------------|
| Total Max Input Voltage (V <sub>OC</sub> @ Lowest Temperature) | 90V             |
| Voltage Range  | 16 - 90V        |
| Maximum Current  | 12A             |
| Maximum Power  | 500W            |
| Output Cable Length  | 1.2m (standard) |
| Connectors   | MC4 (standard)  |
| Communication Type   | Wireless        |
| Recommended Fuse Rating  | 15A             |



TAP required for module-level shutdown and CCA required for monitoring with TS4-A-O.

# ORDERING INFORMATION

## Standard

451-00252-32 1500V UL / 1000V TÜV, 1.2m cable, MC4

## Options

451-00257-12 1000V UL / TÜV, 1.2m cable, MC4 comparable

451-00252-32 1500V UL / 1000V TÜV, 1.2m cable, MC4

451-00261-32 1500V UL / TÜV, 1.2m cable, EVO2

## For sales info:

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