Tigo® Flex MLPE

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

Optimization

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

Safety

Enhanced **safety** for NEC 690.12 rapid shutdown compliance

Monitoring

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
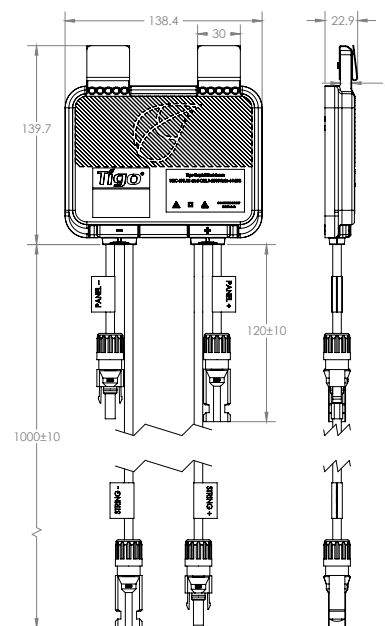
TS4-A-O SPECIFICATIONS

Environmental	
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)
Outdoor Rating	IP68, NEMA 3R

Mechanical	
Dimensions	138.4mm x 139.7mm x 22.9mm
Weight	520g

Electrical	
Total Max Input Voltage (V_{OC} @ 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
Rapid Shutdown UL Listed (NEC 2014 & 2017 690.12)	Yes
Recommended fuse rating	15A

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

Photovoltaic Rapid Shutdown Equipment NEC 690.12 and C22.1-2015 Rule 64-218 This rapid shutdown system is required to be connected to an automatic system which initiates rapid shutdown upon the activation of the AC system disconnect.

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
451-00252-12	1500V UL / 1000V TÜV, 1m cable, MC4
451-00261-32	1500V UL / TÜV, 1.2m cable, EVO2

For sales info:
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For product info:
Visit tigoenergy.com/products

For technical info:
Visit support.tigoenergy.com

For additional info and product selection assistance, use Tigo's online design tool at tigoenergy.com/design

Distributed Generation Optimization Module, QIIO
Photovoltaic Rapid Shutdown System Equipment, QIJW
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