



TS4-A-O

PV Module Advanced Add-On/Retrofit

The TS4-A-O (Optimization) is the advanced add-on/retrofit 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 +158°F)
Outdoor Rating	IP68, NEMA 3R

Mechanical

Dimensions	138.4mm x 139.7mm x 22.9mm
Weight	490g

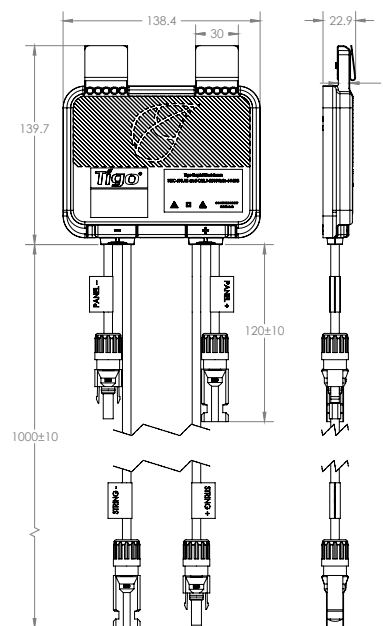
Electrical

Voltage Range	16 - 90V
Maximum Continuous Input Current (I _{MAX})	12A
Maximum Power	500W
Output Cable Length	1m (standard)
Connectors	MC4 compatible (standard)
Communication Type	Wireless

Rapid Shutdown UL Listed
(NEC 2014 & 2017 690.12)

Yes

Cloud Connect Advanced (CCA) and TAP (Gateway) required for rapid shutdown with TS4-A-O.



ORDERING INFORMATION

Standard

451-00257-00 1000V UL / TÜV, 1m cable, MC4 compatible

Options

451-00252-12 1000V UL / TÜV, 1m cable, MC4
 451-00257-12 1000V UL / TÜV, 1.2m cable, MC4 compatible
 451-00252-32 1000V UL / TÜV, 1.2m cable, MC4
 451-00261-12 1500V UL / TÜV, 1m cable, EVO2
 451-00261-32 1500V UL / TÜV, 1.2m cable, EVO2

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For product info:

Visit tigoenergy.com/products

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

