

TS4-A-O (725 W)

Module-level optimization, monitoring, and rapid shutdown

The Tigo TS4-A-O improves production, safety, and intelligence in new designs and existing systems. Patented technology delivers top performance with high efficiency for a fast ROI. Easy installation and long-term reliability reduce system downtime and truck rolls, while Tigo's Energy Intelligence platform enables quicker onsite commissioning and comprehensive remote monitoring.

Features

- Rated 725 W, 22 A I_{SC}/16 A I_{MP} to accommodate high-power, high-current modules
- Simple, fast installation – snaps to a standard PV module frame or mounts to racking
- Intelligent optimization – delivers the maximum energy from an array
- Module-level monitoring – full visibility into module- and system-level production
- Rapid shutdown – a UL Standards-certified component for photovoltaic rapid shutdown systems (PVRSS) worldwide
- Required – Tigo Access Point (TAP) and Cloud Connect Advanced (CCA) for rapid shutdown and module-level monitoring
- Multi-factor Rapid Shutdown capability for enhanced safety when combined with RSS Transmitter (optional)
- Works with thousands of different inverter models from more than 50 inverter brands
- Up to 25 years*

Specifications

Electrical	
Input current (I_{MP}/I_{SC})	16 A/22 A
Input voltage range (V_{MP})	12 – 80 V
Maximum system voltage	1000 V/1500 V
Maximum output power (P_{MAX})	725 W
Maximum efficiency	99.6%
Recommended fuse rating	30 A
Rapid Shutdown	
TS4 conductor	12 AWG
Rapid shutdown time limit	<30 sec.
PVRSS control conductor limit	≤240 VA, ≤8 A, ≤30 V_{DC}
UL 1741 PVRSE standard certified	Yes
Communications	Wireless 2.4 GHz[1] and/or PLC[2]

[1] Using Tigo Access Point (TAP) and Cloud Connect Advanced (CCA)
[2] Using Tigo RSS transmitter power-line communications

tigoenergy.com

©20260824 Tigo Energy, Inc. 002-00216-00 Rev. 1.2

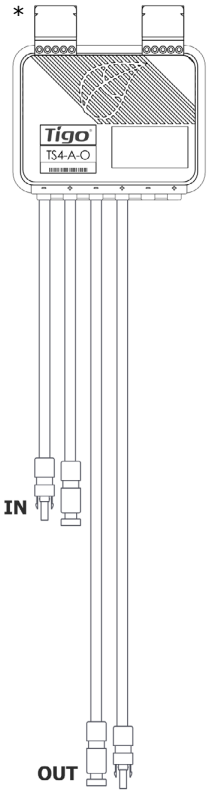
Specifications

Connections	
Connectors	MC4/EVO2
For cable length details, refer to the ordering information below	
Environmental	
Operating temperature range	-40 – 70 °C (-40 – 158 °F)
Storage temperature range	-20 – 65 °C (-4 – 149 °F)
Maximum elevation	3000 m (9840 ft.)
Outdoor IP rating	IP68
Mechanical	
Dimensions (H/W/D)	139.7 x 138.4 x 22.9 mm (5.4 x 5.5 x 0.9 in.)
Weight	520 g (1.15 lb.)
General	
Standards compliance	US FCC; IC Canada; CE-EMC; CE-LVD; CE-RED; CE-RoHS; TUV-IEC 62109; ANSI/UL/CAN 1741; UL1741 PVRSE/PVRSS; US NEC 690/12; ANSI/UL/CAN 3741; CSA 22.2-106; CSA 22.2-330 PVRSE/PVRSS
Warranty*	Up to 25 years

*The Warranty period is 5 years from the date of original installation. To extend to a full 25-year Warranty, Tigo requires all system components with connection capability (TS4-A-O, TS4-A-S, CCA and TAP) to stay connected to the Tigo Energy Intelligence platform throughout the Warranty Period, allowing for remote monitoring and firmware updates. Exclusions and limitations apply. Click here for full warranty details.
https://www.tigoenergy.com/downloads?type-detail=Warranty

More Resources

Home | Help Center | Downloads



Ordering Information

Part Number	Cable Lengths* IN/OUT	Connectors	V_{MAX} Certifications UL/IEC
511-340112-2001	0.1/1.2 m	MC4	1500 V/1000 V
511-341220-2001	1.2/2.0 m	MC4	1500 V/1000 V
511-340612-2001	0.6/1.2 m	MC4	1500 V/1000 V
511-320112-2001	0.1/1.2 m	EVO2	1500 V/1500 V
511-320612-2001	0.6/1.2 m	EVO2	1500 V/1500 V
511-321220-2001	1.2/2.0 m	EVO2	1500 V/1500 V

* Refer to image. Cable lengths are +/- 0.05m