



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
- 25-year warranty

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 2.4GHz ¹ and/or PLC ²

¹ Using Tigo Access Point (TAP) and Cloud Connect Advanced (CCA)

² Using Tigo RSS transmitter power-line communications



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	
FCC 15b, ETSI EN 301 489, CISPR 31, CSA 22.2, IEC 62109, NEC 690.12 UL 1741 PVRSE/PVRSS	
Warranty	25 years

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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

