



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	
Maximum current (I_{MP} / I_{SC})	16 A / 22 A
Input voltage range (V_{MP})	12 – 80 V
Maximum input voltage	80 V
Maximum system voltage (V_{MAX})	1000 V / 1500 V ¹
Maximum output current (I_{MAX})	16 A
Maximum output power (P_{MAX})	725 W
Maximum efficiency	99.6%
Recommended fuse rating	25 A
AS 5033: Operational Output	
Maximum output current	$I_{DCU MAX}$
Maximum output voltage	$V_{DCU MAX}$
Maximum output power	$P_{DCU MAX}$
Rapid Shutdown	
TS4 conductor AWG	12
Rapid shutdown time limit	<30 sec.
PVRSE-controlled conductor limits	$\leq 240 VA$, $\leq 8 A$, $\leq 30 V_{DC}$
UL 1741-compliant PVRSE	Yes
Communications	Wireless 2.4GHz ² and/or PLC ³

¹ Depending on UL/IEC certification

² Using Tigo Access Point (TAP) and Cloud Connect Advanced (CCA)

³ 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

More Resources



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

