

TS4-A-S (725 W)

Module-level monitoring, and rapid shutdown

Tigo TS4-A-S module-level power electronics (MLPE) improves production, enhances safety, and adds intelligence to both new and existing systems. With patented technology, it offers superior performance and high efficiency, delivering a fast return on investment. Its easy installation and long-lasting reliability reduce system downtime and operational costs. Additionally, Tigo's Energy Intelligence platform accelerates onsite commissioning and provides comprehensive remote monitoring. By incorporating module-level monitoring and rapid shutdown, O&M expenses and truck rolls are significantly minimized.

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
- 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
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	≤240 VA, ≤8 A, ≤30 V_{DC}
UL 1741-compliant PVRSE	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

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Specifications

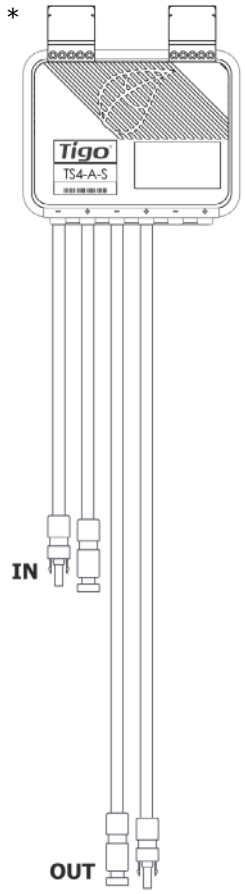
Connections	
Connectors	MC4/EVO2
For cable length details, refer to the ordering information below	
Environmental	
Operating temperature range	-40 – 85 °C (-40 – 185 °F)
Storage temperature range	-20 – 65 °C (-4 – 149 °F)
Maximum elevation	3000 m (9840 ft.)
Outdoor IP rating	IP68
Mechanical	
Dimensions (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
516-340112-2001	0.1/1.2 m	MC4	1500 V/1000 V
516-340612-2001	0.6/1.2 m	MC4	1500 V/1000 V
516-341220-2001	1.2/2.0 m	MC4	1500 V/1000 V
516-320112-2001	0.1/1.2 m	EVO2	1500 V/1500 V
516-320612-2001	0.6/1.2 m	EVO2	1500 V/1500 V
516-321220-2001	1.2/2.0 m	EVO2	1500 V/1500 V

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