



# 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	$\leq 240 VA, \leq 8 A, \leq 30 V_{DC}$
UL 1741-compliant PVRSE	Yes
Communications	Wireless 2.4GHz <sup>1</sup> and/or PLC <sup>2</sup>

<sup>1</sup> Using Tigo Access Point (TAP) and Cloud Connect Advanced (CCA)

<sup>2</sup> 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 – 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

## More Resources



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## Ordering Information

Part Number	Cable Lengths* IN/OUT	Connectors	V <sub>MAX</sub>	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.

