



# TS4-A-O

## 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

- 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
- Works with any system – fully compatible with thousands of different inverter models from more than 50 inverter brands
- 25-year warranty
- Monitoring, rapid shutdown, and remote troubleshooting with Tigo Access Point (TAP) and Cloud Connect Advanced (CCA)

### Specifications

#### Electrical

Maximum current ( $I_{MP}/I_{SC}$ )	15 A/20 A
Input voltage range ( $V_{MP}$ )	16 – 80 V
Maximum input voltage	80 V
Maximum system voltage ( $V_{MAX}$ )	1000 V/1500 V*
Maximum output current ( $I_{MAX}$ )	15 A
Maximum output power ( $P_{MAX}$ )	700 W
Maximum fuse rating	25 A
Maximum efficiency	99.6%

#### 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

#### Connections

Input (from module) cable lengths	0.12/0.62 m
Output (to string) cable lengths	1.2/2 m
Connectors	MC4/EVO2

\* Depending on UL/IEC certification



## Specifications

### Environmental

Operating temperature range	-40 – 70 °C (-40 – 158 °F)
Storage temperature range	-40 – 85 °C (-40 – 185 °F)
Maximum elevation	2000 m (6560 ft.)
Outdoor IP rating	IP68/NEMA 3R

### 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

## Ordering Information

Part Number	V <sub>MAX</sub> Certifications UL/IEC	Cable Lengths	Connectors
461-00252-20	1500 V/1000 V	1.2/2 m	MC4
461-00252-32	1500 V/1000 V	0.12/1.2 m	MC4
461-00252-62	1500 V/1000 V	0.62/1.2 m	MC4
461-00261-32	1500 V/1500 V	0.12/1.2 m	EVO2
461-00261-62	1500 V/1500 V	0.62/1.2 m	EVO2
462-00252-32	1000 V*	0.12/1.2 m	MC4
462-00252-62	1000 V*	0.62/1.2 m	MC4
462-00261-32	1500 V*	0.12/1.2 m	EVO2
462-00261-62	1500 V*	0.62/1.2 m	EVO2

\* IEC certified only

## More Resources

