



# TS4-A-S

## Module-level monitoring and rapid shutdown

The Tigo TS4-A-S 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
- 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 – 75 °C (-40 – 167 °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<br>(5.4 x 5.5 x 0.9 in.) |
| Weight             | 490 g (1.1 lb.)                                  |

### General

|                      |                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------|
| Standards compliance | FCC 15b, ETSI EN 301 489, CISPR 31, CSA 22.2,<br>IEC 62109, NEC 690.12 UL 1741 PVRSE/PVRSS |
| Warranty             | 25 years                                                                                   |

\* IEC rating: -40 – 85 °C (-22 – 185 °F)

## Ordering Information

| Part Number  | Cable Lengths | Connectors | V <sub>MAX</sub> Certifications<br>UL/IEC |
|--------------|---------------|------------|-------------------------------------------|
| 466-00252-20 | 1.2/2 m       | MC4        | 1500 V/1000 V                             |
| 466-00252-32 | 0.12/1.2 m    | MC4        | 1500 V/1000 V                             |
| 466-00252-62 | 0.62/1.2 m    | MC4        | 1500 V/1000 V                             |
| 466-00261-32 | 0.12/1.2 m    | EVO2       | 1500 V/1500 V                             |
| 466-00261-62 | 0.62/1.2 m    | EVO2       | 1500 V/1500 V                             |

## More Resources

