



TS4-A-2F

Module-level rapid shutdown for two modules

The TS4-A-2F (Fire Safety) is the advanced add-on rapid shutdown solution that brings smart module functionality to standard PV modules for higher reliability. Ensure safety by upgrading existing PV systems or by adding safety features to new installations.

The TS4-A-2F complies with NEC 2017, 2020, and 2023 690.12 Rapid Shutdown specifications when installed with the Tigo RSS Transmitter or an inverter with a built-in Tigo certified transmitter.

Features

- High input current rating – now rated for 20 A I_{MP} /25 A I_{SC} to better accommodate bifacial and high-current modules
- Simple, fast installation – snaps to a standard PV module frame or mounts to racking
- Power-line communications (PLC) signaling – rapid shutdown signaling over PV conductors
- Automatic shutdown – PV array enters rapid shutdown mode in the event of AC grid loss
- UL Standards-certified – tested and certified with hundreds of top inverter models
- 25-year warranty

Specifications

	20 A	25 A
Electrical		
Number of inputs	2	
Maximum voltage per input	80 V	
Voltage range (V_{MP}) per input	16 – 80 V	
Maximum efficiency	99.9%	
Maximum system voltage (V_{MAX})	1000 V/1500 V*	
Maximum current (I_{MP}/I_{SC}) per unit	15 A/20 A	20 A/25 A
Maximum output current (I_{MAX})	15 A	20 A
Maximum output power (P_{MAX})	1000 W (500 W/input)	1400 W (700 W/input)
Recommended fuse rating	25 A	30 A
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	PLC	
Connections		
Input (from modules) cable lengths	0.13/0.2/1.2/1.3 m	
Output (to string) cable lengths	2.2/2.4 m	
Connectors	MC4/EVO2	

* Depending on UL/IEC certification



Specifications

	20 A	25 A
Environmental		
Operating temperature range	-40 – 85 °C (-40 – 185 °F)	
Storage temperature range	-40 – 85 °C (-40 – 185 °F)	
Maximum elevation	3000 m (9840 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	590 g (1.3 lb.)	
General		
Standards compliance	UL 1741 PVSRE, UL 1741 PVRSS, CSA 22.2, IEC 62109, NEC 690.12	
Warranty	25 years	

* 20 A UL rating: -30 – 75 °C (-22 – 167 °F)

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Ordering Information

Part Number	V _{MAX} Certifications UL/IEC	Cable Lengths	Connectors
20 A I_{sc}			
484-00252-22	1500 V/1000 V	0.13/0.2/2.2 m	MC4
484-00252-24	1500 V/1000 V	1.2/1.3/2.4 m	MC4
484-00261-24	1500 V/1500 V	1.2/1.3/2.4 m	EVO2
484-00261-22	1500 V/1500 V	0.13/0.2/2.2 m	EVO2
484-01252-22	1500 V/1000 V	0.13/0.2/2.2 m	MC4
484-01252-24	1500 V/1000 V	1.2/1.3/2.4 m	MC4
484-01261-22	1500 V/1500 V	0.13/0.2/2.2 m	EVO2
484-01261-24	1500 V/1500 V	1.2/1.3/2.4 m	EVO2
25 A I_{sc}			
485-00252-22	1500 V/1000 V	0.13/0.2/2.2 m	MC4
485-00252-24	1500 V/1000 V	1.2/1.3/2.4 m	MC4
485-00261-22	1500 V/1500 V	0.13/0.2/2.2 m	EVO2
485-00261-24	1500 V/1500 V	1.2/1.3/2.4 m	EVO2
487-00252-22	1000 V*	0.13/0.2/2.2 m	MC4
487-00252-24	1000 V*	1.2/1.3/2.4 m	MC4
487-00261-22	1500 V*	0.13/0.2/2.2 m	EVO2
487-00261-24	1500 V*	1.2/1.3/2.4 m	EVO2

* IEC certified only