

TS4-A-2F

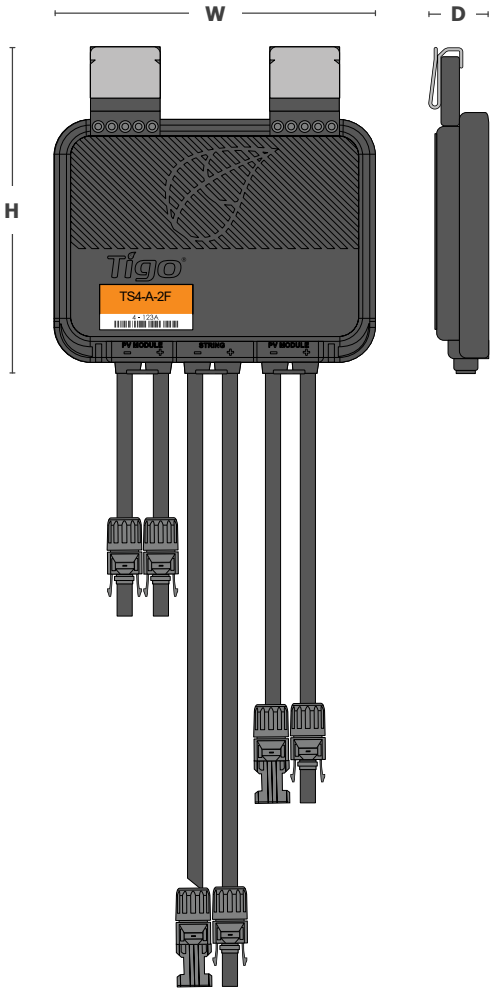
Module-level PV Rapid Shutdown for two modules

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 & 2023 690.12 Rapid Shutdown specifications when installed with the Tigo RSS Transmitter or an inverter with built-in Tigo certified transmitter.

Features

- High input current rating - Now rated for 20A Imp/ 25A Isc to better accommodate bifacial and high current modules
- Simple, Fast Installation - Snap to standard PV module frame or remove clips for rack mounting
- PLC Signaling - Rapid shutdown signaling over PV conductors
- Automatic Shutdown - PV array enters rapid shutdown in the event of AC grid loss
- PVRSS Certified - Tested and UL certified with hundreds of top inverter models
- 25-year warranty



Quick Specs

TS4-A-2F		
Dimensions (W x H x D)	139.7 x 138.4 x 22.9mm (5.5 x 5.4 x 0.9in)	
Weight	590g (1.3lbs)	
Max Current (Imp/Isc)*	15A	20A/25A
Max Wattage	1000W	1400W

*Use local codes/requirements to calculate maximum current.

Tigo®

Electrical Data	15A	25A
Maximum input voltage (per input)	80V	
Operating voltage range[1]	16 - 80V	
Maximum input current (Isc)	N/A	25A per input
Maximum input current (Imp)	15A per input	20A per input
Maximum wattage (total)	1000W (500W per input)	1400W (700W per input)

[1]Maximum output voltage of the TS4 is dependent on the PV module voltage. Refer to PV modules nameplate.

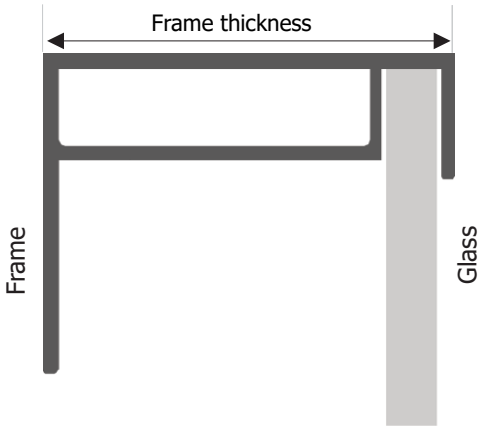
Connections	
Module Conductor lengths[2]	0.12/1.2/1.3m, options available[2]
String Conductor lengths	2.2/2.4m, options available[2]
Connectors[2]	MC4, EVO2, options available[2]

[2]Contact sales for additional connector and conductor length options. MOQ may apply.

General Data		
Operating temperature range	-40°C to +80°C (-40°F to +176°F)	
Storage temperature range	-40°C to +85°C (-40°F to +185°F)	
Recommended fuse rating	20A	30A
Outdoor rating	IP68	
Maximum altitude	3000m	
Efficiency	99.9%	
Communication	PLC	
Rapid Shutdown Time Limit	30 secs or less[3]	
Conductor AWG Range	10-12 AWG	
PVRSE Controlled Conductors	≤30 Vdc, ≤240VA, ≤8A[3]	

[3]Limits are based on NEC 690.12 rapid shutdown requirements.

Module Mounting



If frame thickness is ≤35mm (1.4in), install with the TS4 label facing the PV module.

Ordering Information

484-00252-22	TS4-A-2F, 15A, 1000W, 1500V UL/1000V IEC, 0.12/0.2/2.2m cable, MC4
484-00252-24	TS4-A-2F, 15A, 1000W, 1500V UL/1000V IEC, 1.2/1.3/2.4m cable, MC4
484-00261-22	TS4-A-2F, 15A, 1000W, 1500V UL/IEC, 0.12/0.2/2.2m cable, EVO2
484-00261-24	TS4-A-2F, 15A, 1000W, 1500V UL/IEC, 1.2/1.3/2.4m cable, EVO2
484-01252-22	TS4-A-2F, 15A, 1000W, 1500V UL/1000V IEC, 0.12/0.2/2.2m cable, MC4 (EMEA)
484-01252-24	TS4-A-2F, 15A, 1000W, 1500V UL/1000V IEC, 1.2/1.3/2.4m cable, MC4 (EMEA)
484-01261-22	TS4-A-2F, 15A, 1000W, 1500V UL/IEC, 0.12/0.2/2.2m cable, EVO2 (EMEA)
484-01261-24	TS4-A-2F, 15A, 1000W, 1500V UL/IEC, 1.2/1.3/2.4m cable, EVO2 (EMEA)
485-00252-22	TS4-A-2F, 25A, 1400W, 1500V UL/1000V IEC, 0.12/0.2/2.2m cable, MC4
485-00252-24	TS4-A-2F, 25A, 1400W, 1500V UL/1000V IEC, 1.2/1.3/2.4m cable, MC4
485-00261-22	TS4-A-2F, 25A, 1400W, 1500V UL/IEC, 0.12/0.2/2.2m cable, EVO2
485-00261-24	TS4-A-2F, 25A, 1400W, 1500V UL/IEC, 1.2/1.3/2.4m cable, EVO2
487-00252-22	TS4-A-2F, 25A, 1400W, 1500V IEC, 0.12/0.2/2.2m cable, MC4
487-00252-24	TS4-A-2F, 25A, 1400W, 1000V IEC, 1.2/1.3/2.4m cable, MC4
487-00261-22	TS4-A-2F, 25A, 1400W, 1500V IEC, 0.12/0.2/2.2m cable, EVO2
487-00261-24	TS4-A-2F, 25A, 1400W, 1500V IEC, 1.2/1.3/2.4m cable, EVO2

Additional resources

Tigo TS4-A-2F | Support | Tigo RSS | Community

Tigo®