



TS4-A-F

Module-level PV Rapid Shutdown

The TS4-A-F (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-F 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.

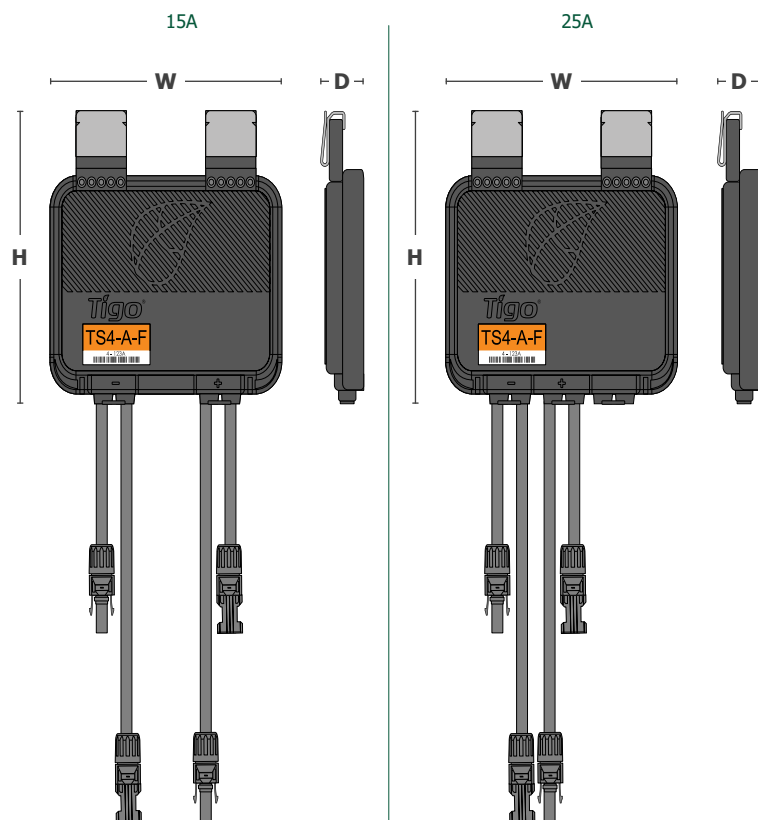
Features

- 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 mode in the event of AC grid loss
- PVRSS Certified – Tested and certified with hundreds of top inverter models
- 25-year warranty

Quick Specs

TS4-A-F	15A	25A
Height/width/depth	139.7 x 138.4 x 22.9mm (5.5 x 5.4 x 0.9in)	
Weight	490g (1.1lbs)	
Max Current (Imp/Isc)*	15A/NA	20A/25A
Max Power	700W	

*Use local codes/requirements to calculate maximum current.



Electrical Data	15A	25A
Maximum input voltage	90V	80V
Operating voltage range	16 - 90V	16 - 80V
Maximum input current (Isc)	N/A	25A
Maximum input current (Imp)	15A	20A
Maximum wattage	700W	700W

Connections

Module Conductor lengths	0.12m, 0.62m options available ¹	0.62m options available ¹
String Conductor lengths	1.2m, options available ¹	
Connectors	MC4, EVO2, options available ¹	

¹Contact sales for additional connector and conductor length options. MOQ may apply.

General Data

Operating temperature range	UL: -30°C to +75°C (-22°F to +167°F) IEC: -40°C to +85°C (-40°F to +185°F)	UL/IEC: -40°C to +80°C (-40°F to +176°F)
Storage temperature range	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
Recommended fuse rating	20A	30A
Outdoor protection rating	IP68, NEMA 3R	IP68
Maximum altitude	2000m	3000m
Efficiency	99.6%	99.9%
Communication	PLC	
Rapid Shutdown Time Limit	30 secs or less ²	
Conductor AWG Range	10-12 AWG	
PVRSE Controlled Conductors	≤30 Vdc, ≤240VA, ≤8A ²	

²Limits are based on NEC 690.12 rapid shutdown requirements.

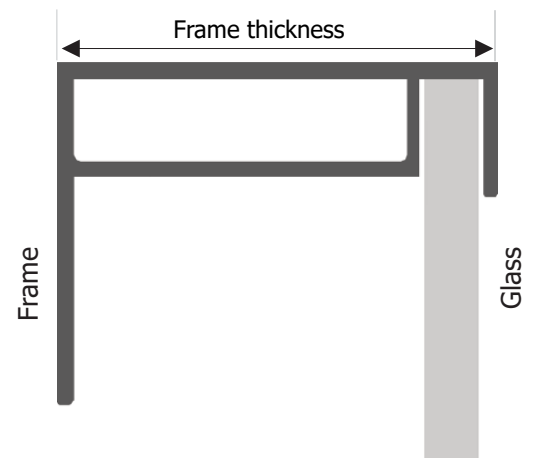
Ordering Information

459-00252-32	TS4-A-F, 15A, 700W, 1500V UL / 1000V IEC, 0.12/ 1.2m Cable, MC4
481-00252-02	TS4-A-F, 15A, 700W, 1500V UL / 1000V IEC, 0.62/1.2m Cable, MC4
481-00261-32	TS4-A-F, 15A, 700W, 1500V UL / IEC, 0.12/ 1.2m Cable, EVO2
481-00261-62	TS4-A-F, 15A, 700W, 1500V UL / IEC, 0.62/1.2m Cable, EVO2
486-00252-32	TS4-A-F, 25A, 700W, 1500V UL / 1000V IEC, 0.12/1.2m Cable, MC4
486-00252-62	TS4-A-F, 25A, 700W, 1500V UL / 1000V IEC, 0.62/1.2m Cable, MC4
486-00261-32	TS4-A-F, 25A, 700W, 1500V UL / IEC, 0.12/1.2m Cable, EVO2
486-00261-62	TS4-A-F, 25A, 700W, 1500V UL / IEC, 0.62/1.2m Cable, EVO2
488-00252-32	TS4-A-F, 25A, 700W, 1000V IEC, 0.12/1.2m Cable, MC4
488-00252-62	TS4-A-F, 25A, 700W, 1000V IEC, 0.62/1.2m Cable, MC4
488-00261-32	TS4-A-F, 25A, 700W, 1500V IEC, 0.12/1.2m Cable, EVO2
488-00261-62	TS4-A-F, 25A, 700W, 1500V IEC, 0.62/1.2m Cable, EVO2

Additional resources



Module Mounting



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