

SOLAR POWER SYSTEMS



TIGO

RESIDENTIAL POWER OPTIMISERS

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 solar systems.

Patented technology delivers top performance with high efficiency for a fast ROI. Easy installation and long-term reliability reduce system downtime, while Tigo's Energy Intelligence platform enables quicker onsite commissioning and comprehensive remote monitoring.

- * Simple, fast installation – snap to a standard PV module frame or mount to racking
- * Intelligent optimization – optimizes only when needed
- Module-level monitoring – full visibility into module- and system-level production
- * Rapid shutdown – a UL/NEC-certified component for photovoltaic rapid shutdown systems (PVRSS) worldwide
- * Monitoring, rapid shutdown, and remote troubleshooting with TAP and CCA
- * 5 year warranty when the system is installed without a CCA kit connection.

How you benefit:



HIGH EFFICIENCY

Tigo optimised solutions can improve panel efficiency by up to 5%.



FLEXIBLE DESIGN

Tigo Optimised solutions work with over 200 inverter models globally.



SAFE OPERATION

Automatic panel-level voltage shutdown feature for installer.



INNOVATIVE

Monitoring, rapid shutdown, and remote troubleshooting with (TAP) and (CCA).



SOLAHART WARRANTY

Enjoy a 25 year warranty when the system is installed with CCA kit.⁽²⁾

TECHNICAL DATA

Electrical

Maximum input voltage (V_{OC} at lowest temperature)	80V
Input voltage range	16 – 80V ¹
Maximum input current (I_{MP})	15A
Maximum power	700W
Recommended fuse rating	20A
Conductor AWG	12
Rapid shutdown time limit	≤30s

Operational Output (connected to inverter)

Maximum output current	$I_{DCU\ MAX}$
Maximum output voltage	$V_{DCU\ MAX}$

Connections²

Input (from module) cable length	0.12m
Output (to string) cable length	1.2m
Connectors	MC4

Environmental

Storage temperature range	-40 – 85°C (-40 – 185°F)
Protection rating	IP68, NEMA 3R
Relative humidity	0 – 100%

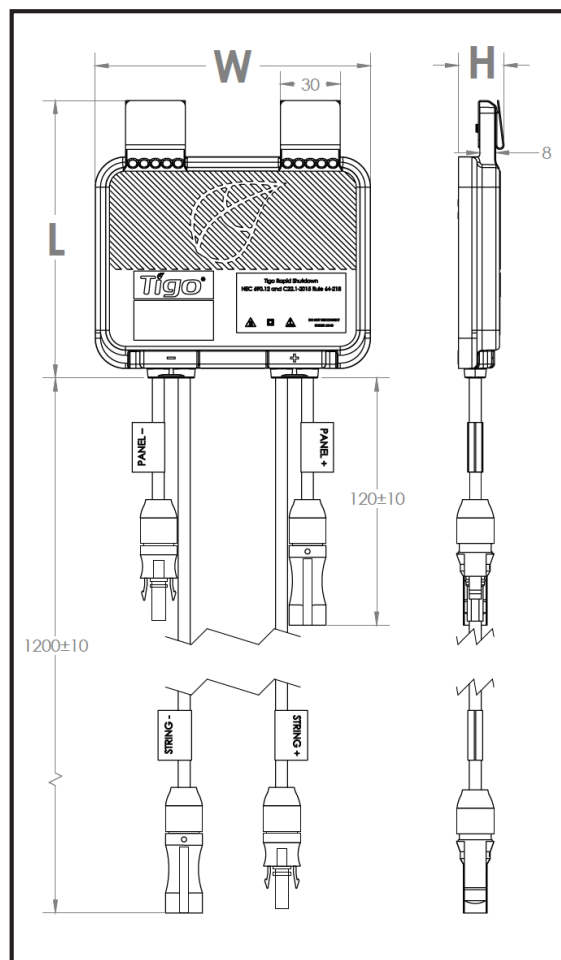
Part Number

OPTIMISER TIGO TS4-A-O 700W	461-00252-32
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⁽¹⁾ $V_{MOD\ MAX}$ of the connected panel = TS4-A-O $V_{DCU\ MAX}$

⁽²⁾ 25 year warranty applies when optimisers are installed as part of a monitored system.

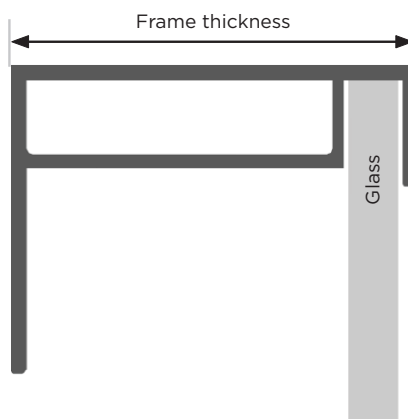
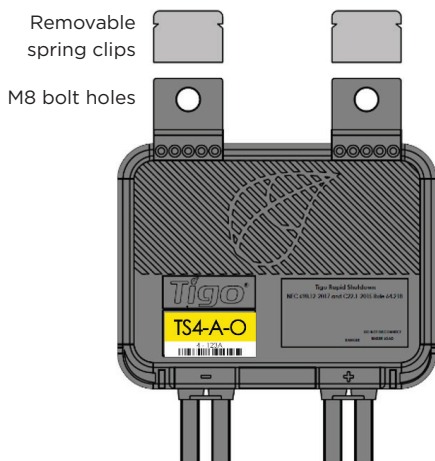
Refer Solahart Warranty for details of the product warranty and Solahart Owner's Guide & Installation Instructions for installation details.



Quick Specs

Height/width/depth	138.4 x 139.7 x 22.9mm (5.4 x 5.5 x 0.9in)
Weight	520g (1.15lbs)
Operating temperature	-40 – 70°C (-40 – 158°F)
Maximum elevation	2000m (6560ft)
Maximum current	15A
Maximum power	700W

Module Mounting



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

Resources



Specifications and designs included in this data sheet are subject to change without notice.