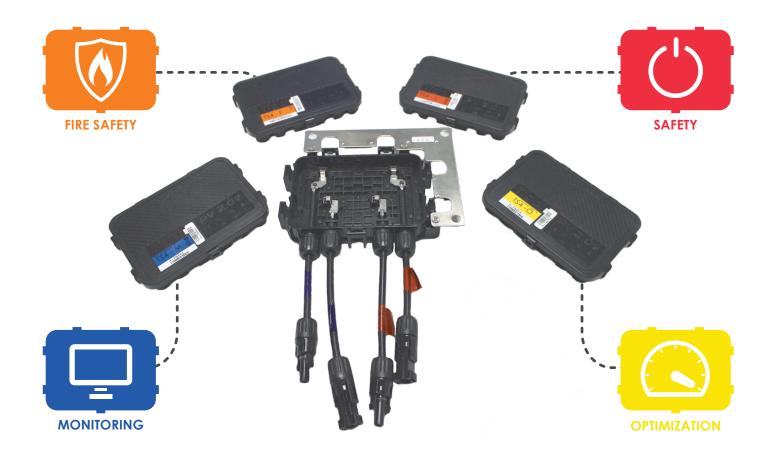


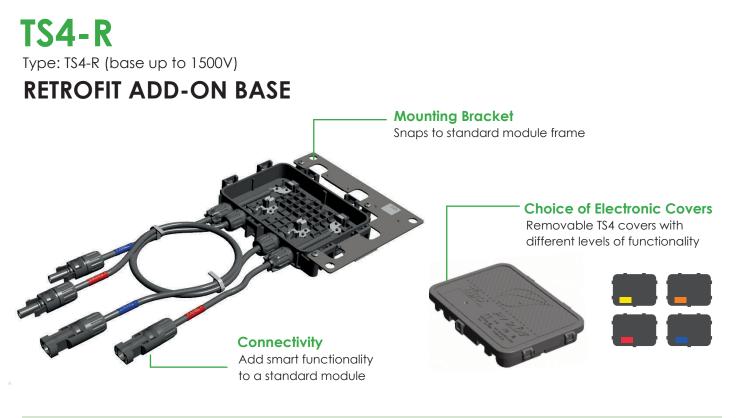
SMART MODULE RETROFIT PLATFORM

The TS4-R is a retrofit solution that brings smart module functionality to standard PV modules, for upgrading underperforming PV systems or adding smart features to new installations. The TS4-R retrofit base can be matched with one of several electronic covers to address a range of functions and budgets. Together they form a new generation of module-level power electronics: flexible, replaceable, upgradeable, and accompanied by a powerful PV 2.0 communication backend.





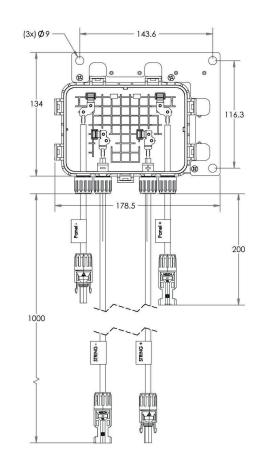
RETROFIT MODULAR PLATFORM



25.5

MECHANICAL SPECIFICATIONS

Mechanical	
Operating Temperature Range	-40°C to +70°C (-40°F to +158°F), RH < 85%
Storage Temperature Range	-40°C to +70°C (-40°F to +158°F), RH < 60%
Cooling Method	Natural Convection
Dimensions (with cover)	178.5mm x 134mm x 25.5mm
Weight (base and cover)	610g (M or S cover), 670g (O cover)
Outdoor Rating	IP68, NEMA 3R
Cabling	
Туре	Н1Z2Z2-К
Output Cable Length	Standard 1.0m, other lengths on request
Rating Options	1000V rated 1500V rated
Cable Cross-Section	6.3 ± 0.3mm
Connectors	MC4, MC4 compatible, EVO2
UV Resistance	500hr with UV light between 300-400nm @65°C
Maximum String Voltage	1500V UL/IEC1



¹ All TS4 covers are 1500V compatible. Specify max system voltage when ordering TS4-R bases for appropriate cables & connectors.

UPGRADE YOUR FLEET WITH TS4-R

Tigo has expanded its smart module retrofit platform to provide multiple levels of customization. With a universal base and a range of covers containing the Flex MLPE, TS4 increases your freedom of choice when selecting features for a particular project and budget. TS4 retrofit cover options include monitoring, safety, and optimized performance features.





- Shade and mismatch tolerance
- Enhanced energy yield
- Greater design flexibility



- Maximized roof usage
- Plus all the benefits of Safety and Monitoring

SAFETY TS4-R-S





- NEC 2014 & 2017 690.12 rapid shutdown compliant
- Module-level deactivation

- Automatic or manual shutdown
- Plus all the benefits of Monitoring

FIRE SAFETY TS4-R-F





- NEC 2014 & 2017 690.12 rapid shutdown compliant
- Module-level deactivation

- Automatic or manual shutdown
- SunSpec signaling

MONITORING TS4-R-M



- Reduced O&M costs
- PV-2.0 data synchronization
- Module bar code tracking



- CRM integration
- Warranty tracking
- Fleet management

TS4 COVERS



¹ Cloud Connect Advanced (CCA) and TAP/Gateway required for rapid shutdown compliance.

ORDERING INFORMATION

Add-on / Retrofit Unit	
1000V TÜV / UL, MC4 compatible, 1m cable	
Connectors (1000V TÜV / UL): MC4, EVO2	
1500V TÜV / UL, EVO2, or MC compatible	
Features	
Monitoring	
Fire Safety	
Safety	
Optimization	

All TS4 covers are 1500V compatible. Specify max system voltage when ordering TS4-R bases for appropriate cables & connectors.

For sales info:

sales@tigoenergy.com or 1.408.402.0802

For product info: Visit www.tigoenergy.com/products

For technical info:

http://support.tigoenergy.com

For additional info and product selection assistance, use Tigo's online design tool at www.tigoenergy.com/design









Tigo Energy, Inc. 420 Blossom Hill Rd, Los Gatos, California 95032 USA | www.tigoenergy.com P: +1.408.402.0802 F: +1.408.358.6279 | sales@tigoenergy.com