

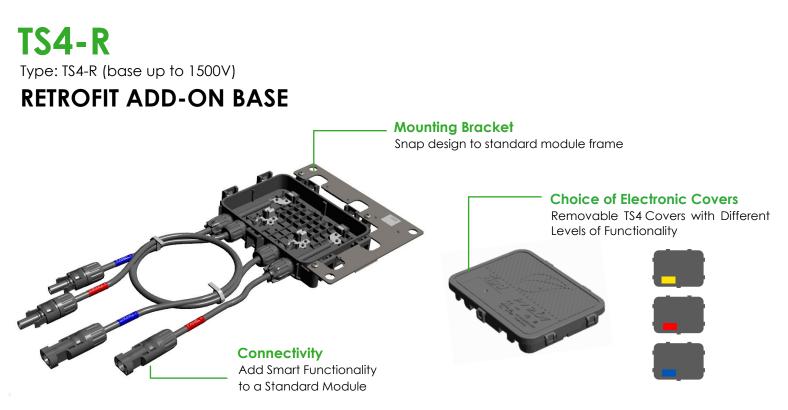
SMART MODULE - RETROFIT PLATFORM

The TS4-R is a Retrofit or Add-on universal base. The TS4-R addresses the need for a retrofit solution that can be mounted on any existing installed PV system, connected into the existing PV module JBox, improving energy harvesting, greater flexibility, and increased control over project to the existing PV system. The offering for the retrofit is a two-piece solution: the TS4-R base, which is added on the solar module, and its covers, plug-and-play Flex MLPE which can be swapped in and out. It supports any of the wide offering of the existing TS4 Platform functional covers. It can also be designed into a new system.



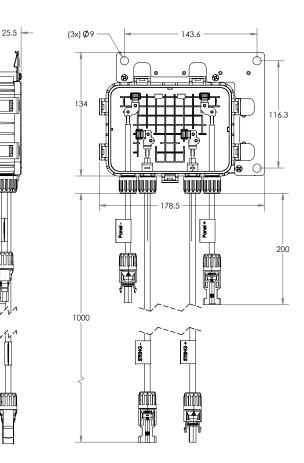


RETROFITTED MODULAR PLATFORM



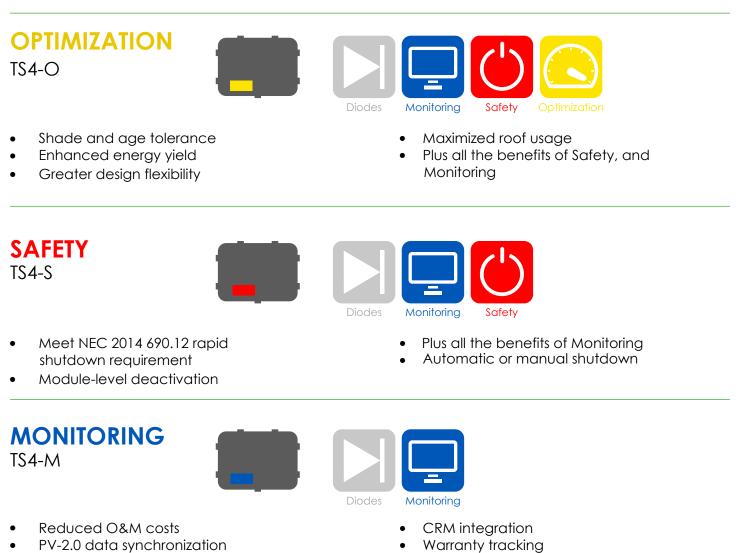
MECHANICAL SPECIFICATIONS

Mechanical	
Operating Temperature Range	-40°C to +75°C (-40°F to +167°F)
Storage Temperature Range	-40°C to +75°C (-40°F to +167°F)
Cooling Method	Natural Convection
Dimensions (with cover)	178.5mm x 134mm x 25.5mm
Weight (without cover)	470g
Environmental Rating	IP67, NEMA 3R
Cabling	
Туре	PV1-F, PV wire
Output Length	Standard 1.0m, other lengths on request
Cable Cross-Section	4.0mm ² (12AWG)
Cable selection	600V/1000V rated 1500V rated
Connectors	MC4, MC4 compatible, Amphenol
Maximum String Voltage	600V UL/1000V IEC, 1000V UL/IEC or 1500V UL/IEC



UPGRADE YOUR FLEET WITH TS4-R

Tigo has expanded its smart module platform to provide three 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 cover options are monitoring, safety and optimized performance features.



Module bar code tracking

• Fleet management

TS4 COVERS





TS4-S



ELECTRICAL RATINGS

INPUT @ STC			
Rated DC Input Power	375W	375W	375W
Maximum PV Module Open Circuit Voltage(Voc)	52V	52V	52V
Maximum Current	12A	12A	10A
PV Module Vmp range	16-48∨	16-48V	16-48V
OUTPUT			
Output Power Range	0-375W	0-375W	0-375W
Output Voltage Range		0-Voc	
Rapid Shutdown Verified (NEC 2014 690.12)	No	Yes	Yes
Impedance Matching Capability	No	No	Yes
Maximum System Voltage		600/1000/1500V	
Series Fuse Rating		15A	

ORDERING INFORMATION

	Base type	Covers	Pre-Assembled
RETROFIT/ ADD-ON	TS4-R (600V and 1000V)		
Monitoring		TS4-M	TS4-R-M
Safety		TS4-S	TS4-R-S
Optimization		TS4-O	TS4-R-O
		-	
	Base type	Covers	Pre-Assembled
RETROFIT/ ADD-ON	Base type TS4-R1500 (1500V)	Covers	Pre-Assembled
RETROFIT/ ADD-ON	TS4-R1500	Covers TS4-M	Pre-Assembled
	TS4-R1500		

Retrofit (TS4-R) is available pre-assembled with TS4-M, TS4-S, or TS4-O covers. Covers are available separately. Specify TS4-M, TS4-S, or TS4-O.





For sales info: sales@tigoenergy.com or 1.408.402.0802

For product info:

Visit www.tigoenergy.com/products

For TS4-R retrofit units:

Contact your local distributor or sales@tigoenergy.com

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





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