

TS4-O is one of 5 functional covers that pairs with an integrated modular junction box base (TS4-B), a single retrofit/add-on base (TS4-R-O), or a dual retrofit/add-on base (TS4-R-O-Duo).

#### **Features**

- Increased energy yield
- Greater design flexibility
- Shade and age tolerance
- Maximized roof usage

Plus all the benefits of Safety:

• NEC 690.12 Rapid Shutdown compliance

Optimize

Module-level deactivation

Plus all the benefits of Monitoring:

- Reduced O&M costs
- Module barcode tracking
- Fleet management

### Increase your energy harvest

In an unshaded system, Tigo optimization increased energy harvest by 3%.1 In a shaded system, recover 36% of energy that would have been lost due to mismatch.<sup>2</sup>

## **Design flexibility**

Design using unequal string lengths and mixed orientations. Install into shaded areas with a reduced setback ratio.

Optimize only where needed with selective deployment.3

only where needed4 Works with 2000+ inverter types



- 1) Photon lab report
- 2) NREL report
- For residential systems
  - Selective deployment of optimization is intended for systems with a single string per MPPT. Use 100% deployment of optimization on parallel strings connected to the same MPPT. Rapid shutdown compliance requires 100% deployment of at least TS4-S



# Meet any projects' needs with the TS4 covers

Tigo has expanded its smart module platform to provide five levels of customization. TS4 increases your freedom of choice by allowing you to select the right features for each project and budget.

#### **ELECTRICAL RATINGS**

| INPUT  |                     |
|--|---------------------|
| Rated DC Input Power                                 | 475W                |
| Maximum Input Voltage @ Lowest Temperature           | 90V                 |
| Maximum Short Circuit Current (I <sub>SC</sub> )     | 12A                 |
| Maximum V <sub>oc</sub> @ STC                        | 75V                 |
| Minimum V <sub>MP</sub> @ STC                        | 16V                 |
| OUTPUT   |                     |
| Output Power Range                                   | 0 - 475W            |
| Output Voltage Range                                 | 0 - V <sub>OC</sub> |
| Rapid Shutdown UL Certified (NEC 2014 & 2017 690.12) | Yes                 |
| Impedance Matching Capability                        | Yes                 |
| Output Voltage Limit                                 | No                  |
| Maximum System Voltage                               | 1500V               |
| Maximum Series Fuse Rating                           | 15A                 |



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#### For product info:

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#### For technical info:

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