



# SolarEdge Power Optimizer

Module Add-On with IndOP™ technology

P350I



POWER OPTIMIZER

## PV power optimization at the module-level

- Independent optimization technology (IndOP™) - allows operation with any inverter and requires no additional interface hardware
- Up to 25% more energy
- Mitigates all types of modules mismatch-loss, from manufacturing tolerance to partial shading
- Superior efficiency (99.5%)
- Fast installation with a single bolt
- Ideal for retrofitting existing installations



# SolarEdge Power Optimizer Module Add-On with IndOP™ technology P350I

| BENEFITS PER SOLUTION | SolarEdge Power Optimizer with SolarEdge Inverter | SolarEdge Power Optimizer with SolarEdge Safety & Monitoring Interface and a Non-SolarEdge Inverter | SolarEdge Power Optimizer with a Non-SolarEdge Inverter |
|-----------------------|---|---|---|
| Added Energy          | ✓   | ✓   | ✓   |
| Safety                | ✓   | ✓   | -   |
| Monitoring            | ✓   | ✓   | -   |
| Multi-facet Design    | ✓   | ✓   | ✓   |
| Long String Design    | ✓   | -   | -   |

| P350I (for 60-cell & 72-cell PV modules)  |   |  |         |
|---|---|--|---------|
| <b>INPUT</b>  |   |  |         |
| Rated Input DC Power <sup>(1)</sup>   | 350   |  | W       |
| Absolute Maximum Input Voltage (Voc at lowest temperature)                                | 60  |  | Vdc     |
| MPPT Operating Range  | 8 - 60  |  | Vdc     |
| Maximum Continuous Input Current (Isc)  | 10  |  | Adc     |
| Maximum Efficiency  | 99.5  |  | %       |
| Weighted Efficiency   | 98.6  |  | %       |
| Overvoltage Category  | II  |  |         |
| <b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER)</b>          |   |  |         |
|   | Power Optimizer connected to a SolarEdge Inverter | Power Optimizer connected to a Non-SolarEdge Inverter <sup>(2)</sup> |         |
| Maximum Output Current  | 15  | 10   | Adc     |
| Maximum Output Voltage  | 60  | Voc of connected PV module   | Vdc     |
| <b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)</b> |   |  |         |
| Safety Output Voltage per Power Optimizer   | 1   | 1 <sup>(3)</sup>   | Vdc     |
| <b>STANDARD COMPLIANCE</b>  |   |  |         |
| EMC   | FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3    |  |         |
| Safety  | IEC62109-1 (class II safety), UL1741              |  |         |
| RoHS  | Yes   |  |         |
| Fire Safety   | VDE-AR-E 2100-712:2013-05                         |  |         |
| <b>INSTALLATION SPECIFICATIONS</b>  |   |  |         |
| Maximum Allowed System Voltage  | 1000  |  | Vdc     |
| Dimensions (WxLxH)  | 141 x 212 x 40.5 / 5.55 x 8.34 x 1.59             |  | mm / in |
| Weight (including cables)   | 950 / 2.1   |  | g / lb  |
| Input Connector   | MC3 / MC4 / Amphenol / Tyco / H+S                 |  |         |
| Output Connector  | MC4   |  |         |
| Output Wire Length  | 1.2 / 3.9   |  | m / ft  |
| Operating Temperature Range   | -40 - +85 / -40 - +185                            |  | °C / °F |
| Protection Rating   | IP65 / NEMA4                                      |  |         |
| Relative Humidity   | 0 - 100   |  | %       |

<sup>(1)</sup> Rated STC power of the module. Module of up to +5% power tolerance allowed.

| PV SYSTEM DESIGN                           | SOLAREEDGE SINGLE PHASE INVERTER | SOLAREEDGE THREE PHASE INVERTER | NON-SOLAREEDGE INVERTER <sup>(2)</sup>                   |
|--|----------------------------------|---------------------------------|--|
| Minimum String Length (Power Optimizers)   | 8                                | 16                              | According to inverter design rules & PV module datasheet |
| Maximum String Length (Power Optimizers)   | 25                               | 50                              |  |
| Maximum Power per String                   | 5250                             | 11250                           | W  |
| Parallel Strings of Different Lengths      | Yes                              | Yes                             | No   |
| Parallel Strings of Different Orientations | Yes                              | Yes                             | Yes  |

<sup>(2)</sup> Available only if Safety & Monitoring Interface (SMI) is installed or if SafeDCTM is disabled during installation by a one-time operation using the SolarEdge Key.

<sup>(3)</sup> When SolarEdge Safety and Monitoring Interface (SMI) is turned off.

