

Power Optimizer

P300 / P370 / P404 / P405 / P485 / P500 / P505



- Specifically designed to work with SolarEdge commercial inverters SE25K and above
- A single optimizer supports up to four modules with 2 MPP trackers
- Up to 25% more energy

solaredge

Superior efficiency (99.5%)

- Extremely long string length for excellent balance of system cost
 - Module-level voltage shutdown for installer and firefighter safety
- Advanced maintenance with module-level monitoring
- Fast installation with a single bolt



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| MC4 ⁽²⁾ 0.16 MC4 0.9 1.3 -40 - +85 IP68 0=100 | | | | |

⁽¹⁾ Nominal module power under standard test conditions (STC). Module with up to +5% performance tolerance.

⁽²⁾ For other connector types, please contact SolarEdge.
(3) For the dual version for connecting two thin-film modules in parallel, use the P485. With an odd number of PV modules in one string, the installation of a P485 Supports dual version power optimizer connected to a PV module. If you connect a single module, seal the unused input connectors with the supplied seal kit.



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| PV SYSTEM DESIGN USING SOLAREDGE INVERTER ^{(4) (6)} | | SINGLE PHASE HD WAVE | SINGLE PHASE | THREE-PHASE | THREE-PHASE INVERTER FOR THE 277V / 480V MAINS | |
|--|---------------------------------|-------------------------|-----------------|----------------------------------|--|---|
| Maximum string length (Power optimizer) | P300, P370, P500 ⁽⁶⁾ | 16 | | 16 | 18 | |
| | P404,P405, P485, P505 | 8 | | 14 (13 with SE3K) ⁽⁷⁾ | 14 | |
| Maximum string length (power optimizer) | | 25 | | 50 | 50 | |
| Maximum power per string | | 5,700 | 5,250 | 11250 ⁽⁸⁾ | 12750 | W |
| Parallel strings of different lengths or orientations | | Yes | | | | |

⁽⁴⁾ It is not permitted to mix P404 / P405 / P485 / P505 with P300 / P370 / P500 / P600 / P650 / P650 / P730 / P800p / P850 in one string.

⁽⁵⁾ For SE15k and larger, the DC power should be at least 11KW.

⁽⁶⁾ P300 / P370 / P500 are not suitable for operation with the three-phase inverter SE3K available only in some countries; see data sheet three-phase inverter SE3K-SE10K.

⁽⁷⁾ Exact 10 when using the SE3k-RW010BNN (8) For 230V / 400V network: It is possible to install up to 13.5kW in one line, provided that three lines are connected to the inverter / per power unit and the maximum power. Difference between the strings is at most 2,000W. Note the maximum DC input power of the inverter!