SolarEdge Power Optimizer
Module Add-On for Commercial Installations for North America P600 / P700

PV power optimization at the module-level
The most cost effective solution for commercial and large field installations

- Up to 25% more energy
- Superior efficiency (99.5%)
- Balance of System cost reduction; 50% less cables, fuses and combiner boxes, over 2x longer string lengths possible
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Module-level voltage shutdown for installer and firefighter safety
- Use with two PV modules connected in series
### SolarEdge Power Optimizer Module Add-On

For Commercial Installations for North America P600 / P700

<table>
<thead>
<tr>
<th>INPUT</th>
<th>P600 (for 2 x 60-cell PV modules)</th>
<th>P700 (for 2 x 72-cell PV modules)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input DC Power</td>
<td>600</td>
<td>700</td>
</tr>
<tr>
<td>Absolute Maximum Input Voltage</td>
<td>96</td>
<td>125</td>
</tr>
<tr>
<td>MPPT Operating Range</td>
<td>12.5 - 80</td>
<td>12.5 - 105</td>
</tr>
<tr>
<td>Maximum Short Circuit Current (Isc)</td>
<td>10</td>
<td>Adc</td>
</tr>
<tr>
<td>Maximum DC Input Current</td>
<td>12.5</td>
<td>Adc</td>
</tr>
<tr>
<td>Maximum Efficiency</td>
<td>99.5 %</td>
<td>%</td>
</tr>
<tr>
<td>Weighted Efficiency</td>
<td>98.6 %</td>
<td>%</td>
</tr>
<tr>
<td>Overvoltage Category</td>
<td>II</td>
<td></td>
</tr>
</tbody>
</table>

**OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)**

- Maximum Output Current: 15 Adc
- Maximum Output Voltage: 85 Vdc

**OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVERTER OFF)**

- Safety Output Voltage per Power Optimizer: 1 Vdc

**STANDARD COMPLIANCE**

- EMC: FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3
- Safety: IEC62109-1 (class II safety), UL1741
- RoHS: Yes

**INSTALLATION SPECIFICATIONS**

- Compatible SolarEdge Inverters: Three phase inverters
- Maximum Allowed System Voltage: 1000 Vdc
- Dimensions (W x L x H):
  - Pxxx-2 series: 143 x 210 x 45 / 5.63 x 8.26 x 1.75 mm / in
  - Pxxx-5 series: 128 x 152 x 43 / 5 x 5.97 x 1.69 mm / in
- Weight (including cables):
  - Pxxx-2 series: 1100 / 2.4 gr / lb
  - Pxxx-5 series: 930 / 2.05 gr / lb
- Input Connector: MC4 Compatible
- Output Wire Type / Connector: Double Insulated; MC4 Compatible
- Output Wire Length: 1.8 / 5.9 m / ft
- Operating Temperature Range:
  1. Pxxx-2 series: -40 - +85 / -40 - +185 °C / °F
  2. Pxxx-5 series: IP65 / NEMA4
- Protection Rating: IP68 / NEMA6P
- Relative Humidity: 0 - 100 %

**PV SYSTEM DESIGN USING A SOLAREDGE INVERTER**

<table>
<thead>
<tr>
<th>THREE PHASE 208V</th>
<th>THREE PHASE 480V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible Power Optimizers</td>
<td>P600 &amp; P700</td>
</tr>
<tr>
<td>Minimum String Length</td>
<td>Power Optimizers</td>
</tr>
<tr>
<td>Maximum String Length</td>
<td>Power Optimizers</td>
</tr>
<tr>
<td>Maximum Power per String</td>
<td>PV Modules</td>
</tr>
<tr>
<td>Parallel Strings of Different Lengths or Orientations</td>
<td>PV Modules</td>
</tr>
<tr>
<td></td>
<td>Maximum Power per String</td>
</tr>
</tbody>
</table>

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(1) Rated combined STC power of 2 modules connected in series. Module of up to +5% power tolerance allowed.

(2) For ambient temperature above +70 °C / +158 °F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Application Note for more details.

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