SolarEdge Power Optimizer
Module Add-On for Commercial Installations
OP600-96V

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 costs reduction
- Next generation maintenance with module level monitoring
- Module-level voltage shutdown for installer and firefighter safety
- Use with 2 x 60-cell PV modules connected in series
- Compatible with SolarEdge Inverters SE16K & larger
### SolarEdge Power Optimizer Module Add-On

**for Commercial Installations OP600-96V**

<table>
<thead>
<tr>
<th>INPUT</th>
<th>OP600-96V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input DC Power*</td>
<td>600 W</td>
</tr>
<tr>
<td>Absolute Maximum Input Voltage (Voc)</td>
<td>96 Vdc</td>
</tr>
<tr>
<td>MPPT Operating Range</td>
<td>12.5 - 80 Vdc</td>
</tr>
<tr>
<td>Maximum Continuous Input Current (Isc)</td>
<td>10 Adc</td>
</tr>
<tr>
<td>Maximum Efficiency</td>
<td>99.5%</td>
</tr>
<tr>
<td>Weighted Efficiency</td>
<td>98.7%</td>
</tr>
<tr>
<td>Overvoltage Category</td>
<td>II</td>
</tr>
</tbody>
</table>

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

- Maximum Output Current | 15 Adc |
- Operating Output Voltage | 10 - 85 Vdc |

**OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR 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)
- Material: UL-94 (5-VA), UV Resistant
- RoHS: Yes

### INSTALLATION SPECIFICATIONS

- Maximum Allowed System Voltage | 1000 Vdc |
- Dimensions (W x L x H) | 143 x 210 x 45 / 5.63 x 8.26 x 1.75 mm / in |
- Weight | 450 / 1.0 gr / lb |
- Input Connector | MC4 / Tyco / H+S / Amphenol |
- Output Wire Type | 6mm²; MC4 |
- Operating Temperature Range | -40 - +65 / -40 - +150 °C / °F |
- Protection Rating | IP65 / NEMA4 |
- Relative Humidity | 0 - 100 % |

* Rated combined STC power of 2 modules connected in series. Module of up to +5% power tolerance.

### PV SYSTEM DESIGN USING A SOLAREDGE INVERTER**

**THREE PHASE**

- Compatible SolarEdge Inverters: SE16K and larger

**Minimum String Length**

- Power optimizers: 13
- PV modules: 26

**Maximum String Length**

- Power optimizers: 30
- PV modules: 60

**Maximum Power per String**

- 11250 W

**Parallel Strings of Different Lengths or Orientations**

- Yes

**Installation of OP600-96V with OP250/OP300/OP400 in the same string is not allowed.**

### CONFIGURATIONS

- **FOR PORTRAIT ORIENTATION (P/N OP600-96V-ZZZZZ-4U)**
  - Output Wire Length | 1.2m / 4ft |

- **FOR LANDSCAPE ORIENTATION (P/N OP600-96V-ZZZZZ-4UL)**
  - Output Wire Length | 1.8m / 5.9ft |