



# SolarEdge Power Optimizer

## Module Add-On for Commercial Installations



### The most cost effective solution for commercial and large field installations

- Up to 25% increase in power output
- Superior efficiency (99.5%) - peak performance in both mismatched and unshaded conditions
- Balance of System costs reduction
- Next generation maintenance with module level monitoring and smart alerts
- Unprecedented installer and firefighter safety
- **Compatible with 2 x 60-cell PV modules connected in series**
- **Compatible with SolarEdge Inverters SE16k & larger**



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OP600-96

## Module Add-On for Commercial Installations

### HIGHLIGHTS

- Module level MPPT
- Module-level monitoring for automatic module and string level fault detection allowing easy maintenance
- Electric arc prevention - reduces fire hazards
- Unprecedented installer and firefighter safety mode - safe module voltage when inverter is disconnected or off
- Allows parallel uneven length strings and multi-faceted installations
- Immediate installation feedback for quick commissioning

### TECHNICAL DATA

	OP600-96	
<b>INPUT</b>		
Rated Input DC power*	600	W
Absolute Maximum Input Voltage (Voc)	96	Vdc
MPPT Operating Range	10 - 80	Vdc
Maximum Continuous Input Current (Isc)	10	Adc
Maximum Efficiency	99.5	%
European Weighted Efficiency	98.7	%
CEC Weighted Efficiency	98.6	%
Overvoltage Category	II	
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER)</b>		
Maximum Output Current	15	Adc
Operating Output Voltage	10 - 85	Vdc
Total Maximum String Voltage (Controlled by Inverter) - EU 3-ph	950	Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)</b>		
Safety Output Voltage per Power Optimizer	1	Vdc
<b>PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER</b>		
Compatible SolarEdge Inverters	SE16k and larger	
Minimum Number of Power Optimizers / PV Modules per String	14 / 28	
Maximum Power per String	11250 (3-ph system)	W
Parallel Strings of Different Lengths or Orientations	Yes	
<b>STANDARD COMPLIANCE</b>		
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	
<b>INSTALLATION SPECIFICATIONS</b>		
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	
Operating Temperature Range	-40 - +65 / -40 - +150	
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 allowed.



### CONFIGURATIONS

	For portrait orientation (P/N OP600-96-zzzzz-4U)	For landscape orientation (P/N OP600-96-zzzzz-4UL)
Output PV Wire	1.2m / 4ft length; 6mm <sup>2</sup> ; MC4	1.8m / 5.9ft length; 6mm <sup>2</sup> ; MC4

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