



## SolarEdge Power Optimizer

Module Add-On for Commercial Installations  
for North America OP600-96V



POWER OPTIMIZER

**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
- 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 three phase SolarEdge inverters



# SolarEdge Power Optimizer Module Add-On

For Commercial Installations for North America OP600-96V

OP600-96V		
<b>INPUT</b>		
Rated Input DC Power*	600	W
Absolute Maximum Input Voltage (Voc)	96	Vdc
MPPT Operating Range	12.5 - 80	Vdc
Maximum Short Circuit Current (Isc) of connected PV Module	10	Adc
Maximum DC Input Current	12.5	Adc
Maximum Efficiency	99.5	%
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
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)</b>		
Safety Output Voltage per Power Optimizer	1	Vdc
<b>STANDARD COMPLIANCE</b>		
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3	
Safety	IEC62109-1 (class II safety), UL1741	
Material	UL-94 (5-VA), UV Resistant	
RoHS	Yes	
<b>INSTALLATION SPECIFICATIONS</b>		
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 – H4	
Output Wire Type	Double insulated; 6mm <sup>2</sup> ; Amphenol – H4	
Output Wire Length	1.8 / 5.9	m / ft
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 allowed.

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER**		THREE PHASE 208V	THREE PHASE 480V
Compatible SolarEdge Inverters		Three phase inverters	
Minimum String Length	Power optimizers	8	14
	PV modules	16	28
Maximum String Length	Power optimizers	15	30
	PV modules	30	60
Maximum Power per String		6000	12750
Parallel Strings of Different Lengths or Orientations		Yes	

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

