



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		
INPUT			
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		
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), UL1741		
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 – H4		
Output Wire Type	Double insulated; 6mm²; 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 SOLAREGE 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.

