



# SolarEdge Power Optimizer

Module Add-On for Commercial Installations

P600



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 costs reduction; 50% less cables, fuses and combiner boxes
- 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 P600

P600 (for 2 x 60-cell PV modules)		
<b>INPUT</b>		
Rated Input DC Power <sup>(1)</sup>	600	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	96	Vdc
MPPT Operating Range	12.5 - 80	Vdc
Maximum Continuous Input Current (Isc)	10	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
Maximum Output Voltage	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)	
RoHS	Yes	
Fire Safety	VDE-AR-E 2100-712:2013-05	
<b>INSTALLATION SPECIFICATIONS</b>		
Compatible SolarEdge Inverters	Three phase inverters SE15K & larger	
Maximum Allowed System Voltage	1000	Vdc
Dimensions (W x L x H)	141 x 212 x 40.5 / 5.55 x 8.34 x 1.59	mm / in
Weight (including cables)	1100 / 2.4	gr / lb
Input Connector	MC4 / Amphenol / Tyco / H+S	
Output Connector	MC4	
Output Wire Length	1.2 / 3.9 (portrait orientation) or 1.8 / 5.9 (landscape orientation)	m / ft
Operating Temperature Range <sup>(2)</sup>	-40 - +85 / -40 - +185	
Protection Rating	IP65 / NEMA4	
Relative Humidity	0 - 100	%

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

<sup>(2)</sup> 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.

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER <sup>(3)(4)</sup>		THREE PHASE SE15K 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	

<sup>(3)</sup> Use only P600 power optimizers in the same string.

<sup>(4)</sup> In a case of odd number of PV Modules in one string it is allowed to install ONE P600 power optimizer connected to one PV Module.

