



SolarEdge Power Optimizer

Module Add-On for Commercial Installations

P600 / P700 / P800p / P800s



POWER OPTIMIZER

PV power optimization at the module-level

The most cost effective solution for commercial and large field installations

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Balance of System cost reduction; 50% less cables, fuses and combiner boxes, over 2x longer string lengths possible
- Fast installation with a single bolt
- Advanced maintenance with module-level monitoring
- Module-level voltage shutdown for installer and firefighter safety
- Use with two PV modules connected in series or in parallel



SolarEdge Power Optimizer Module Add-On For Commercial Installations P600 / P700 / P800p / P800s

	P600 (for 2 x 60-cell PV modules)	P700 (for 2 x 72-cell PV modules)	P800p (for parallel connection of 2x 96-cell 5" PV modules)	P800s (for series connection of 2x high power or bi-facial modules)	
INPUT					
Rated Input DC Power ⁽¹⁾	600	700	800		W
Absolute Maximum Input Voltage (Voc at lowest temperature)	96	125	83	120	Vdc
MPPT Operating Range	12.5 - 80	12.5 - 105	12.5 - 83	12.5 - 105	Vdc
Maximum Short Circuit Current (Isc)	10.1		14	12.5	Adc
Maximum Efficiency				99.5	%
Weighted Efficiency				98.6	%
Overtoltage Category				II	
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)					
Maximum Output Current	15		18		Adc
Maximum Output Voltage				85	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE 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)	
RoHS				Yes	
Fire Safety				VDE-AR-E 2100-712:2013-05	
INSTALLATION SPECIFICATIONS					
Compatible SolarEdge Inverters	Three phase inverters SE15K & larger		Three phase inverters SE16K & larger		
Maximum Allowed System Voltage				1000	Vdc
Dimensions (W x L x H)	128 x 152 x 43 / 5 x 5.97 x 1.69	128 x 152 x 50 / 5 x 5.97 x 1.93	128 x 152 x 59 / 5 x 5.97 x 2.32		mm / in
Weight (including cables)	834 / 1.8	933 / 2.1	1019 / 2.2	1064 / 2.3	gr / lb
Input Connector ⁽²⁾	MC4		MC4 (Single or Dual input) ⁽⁶⁾		MC4
Output Connector				MC4	
Output Wire Length	1.2 / 3.9 (portrait orientation) or 1.8 / 5.9 (landscape orientation)	1.2 / 3.9 (portrait orientation) or 2.1 / 6.9 (landscape orientation)	1.2 / 3.9 (portrait orientation) or 1.8 / 5.9 (landscape orientation) ⁽⁴⁾	1.2 / 3.9 (portrait orientation) or 2.1 / 6.9 (landscape orientation)	m / ft
Operating Temperature Range ⁽³⁾				-40 - +85 / -40 - +185	
Protection Rating				IP68 / NEMA6P	
Relative Humidity				0 - 100	
				%	

⁽¹⁾ Rated STC power of the module. Module of up to +5% power tolerance allowed.

⁽²⁾ For other connector types please contact SolarEdge.

⁽³⁾ 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.

⁽⁴⁾ Single input version has 1.8m output wires.

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER ⁽⁵⁾⁽⁶⁾		THREE PHASE SE15K AND LARGER	THREE PHASE SE16K AND LARGER	THREE PHASE SE33.3K		
		P600	P600, P700 P800	P600, P700	P800	
Compatible Power Optimizers	Power Optimizers	13	12	13		
Minimum String Length	PV Modules	26	24	26		
Maximum String Length	Power Optimizers		30			
	PV Modules		60			
Maximum Power per String		11250 ⁽⁷⁾	13500	12750 ⁽⁸⁾	15300	W
Parallel Strings of Different Lengths or Orientations			Yes			

⁽⁵⁾ P600 and P700 can be mixed in one string. It is not allowed to mix P600/P700/P800 with P300/P350/P500/P404/P405 in one string.

⁽⁶⁾ In a case of odd number of PV modules in one string it is allowed to install one P600/P700 /P800 power optimizer connected to one PV module. When connecting a single module to the P800p the single input version should be used.

⁽⁷⁾ For SE27.6K: It is allowed to install up to 13,500W per string when 3 strings are connected to the inverter and when the maximum power difference between the strings is up to 2,000W; inverter max DC power: 37,250W.

⁽⁸⁾ For SE33.3K: It is allowed to install up to 15,000W per string when 3 strings are connected to the inverter and when the maximum power difference between the strings is up to 2,000W; inverter max DC power: 45,000W.



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