



SolarEdge Power Optimizer

Module Add-On for Commercial Installations
for North America P600 / P700 / P730



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; 50% less cables, fuses and combiner boxes, over 2x longer string lengths possible
- 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 for North America P600 / P700 / P730

	P600 (for 2 x 60-cell PV modules)	P700 (for 2 x 72-cell PV modules)	P730 (for 2 x high power 72-cell PV modules)	
INPUT				
Rated Input DC Power ⁽¹⁾	600	700	730	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	96	125		Vdc
MPPT Operating Range	12.5 - 80	12.5 - 105		Vdc
Maximum Short Circuit Current (Isc)		10.1	11	Adc
Maximum DC Input Current		12.65	13.75	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		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), UL1741			
RoHS	Yes			
INSTALLATION SPECIFICATIONS				
Compatible SolarEdge Inverters	Three phase inverters			Vdc
Maximum Allowed System Voltage	1000			
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 1.96		mm / in
Weight (including cables)	994 / 2.2	1064 / 2.34		gr / lb
Input Connector	MC4 Compatible			
Output Wire Type / Connector	Double Insulated; MC4 Compatible			
Output Wire Length	1.8 / 5.9	2.1 / 6.89		m / ft
Operating Temperature Range ⁽²⁾	-40 - +85 / -40 - +185			°C / °F
Protection Rating	IP68 / NEMA6P			
Relative Humidity	0 - 100			%

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

⁽²⁾ 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 ⁽³⁾⁽⁴⁾		THREE PHASE 208V	THREE PHASE 480V	
Compatible Power Optimizers		P600, P700 & P730 ⁽⁵⁾	P600, P700 & P730	
Minimum String Length	Power Optimizers	8	13	
	PV Modules	16	26	
Maximum String Length	Power Optimizers	30	30	
	PV Modules	60	60	
Maximum Power per String		6000 ⁽⁶⁾	12750 ⁽⁷⁾	W
Parallel Strings of Different Lengths or Orientations		Yes		

⁽³⁾ P600, P700 and P730 can be mixed in one string. It is not allowed to mix P600/P700/P730 with P300/P320/P400/P405 in one string.

⁽⁴⁾ In a case of odd number of PV Modules in one string it is allowed to install one P600/P700/P730 power optimizer connected to one PV Module.

⁽⁵⁾ P700/P730 design with three phase 208V inverters is limited. Use the SolarEdge Site Designer for verification.

⁽⁶⁾ For SE14.4KUS-208: It is allowed to install up to 6,500W per string when 3 strings are connected to the inverter and when the maximum power difference between the strings is up to 1,000W.

⁽⁷⁾ For SE33.3KUS: 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.

