



## SolarEdge Power Optimizer

Frame-Mounted Module Add-On for  
Commercial Installations for North America

P700 / P730



POWER OPTIMIZER

### Fast mount power optimizers with module-level optimization

- Quicker installation - Power optimizers can be mounted in advance saving installation time
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of modules mismatch-loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Next generation maintenance with module level monitoring
- Module-level voltage shutdown for installer and firefighter safety



# SolarEdge Power Optimizer Module Add-On

## For Commercial Installations for North America P700 / P730

	P700 (for 2 x 72-cell PV modules)	P730 (for 2 x high power 72-cell modules)	
<b>INPUT</b>			
Rated Input DC Power <sup>(1)</sup>	700	730	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	125		Vdc
MPPT Operating Range	12.5 - 105		Vdc
Maximum Short Circuit Current (Isc)	10.1	11	Adc
Maximum DC Input Current	12.63	13.75	Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)</b>			
Maximum Output Current	15		Adc
Maximum Output Voltage	85		Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE 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		
RoHS	Yes		
<b>INSTALLATION SPECIFICATIONS</b>			
Compatible SolarEdge Inverters	Three phase inverters		
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	139 x 165 x 63 \ 5.5 x 6.5 x 2.5		mm / in
Weight (including cables)	1185 / 2.6		gr / lb
Input Connector	MC4 Compatible		
Output Wire Type / Connector	Double Insulated; MC4 Compatible		
Output Wire Length	2.1 / 6.9		m / ft
Operating Temperature Range <sup>(2)</sup>	-40 - +85 / -40 - +185		°C / °F
Protection Rating	IP68 / NEMA6P		
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 208V	THREE PHASE 480V	
Minimum String Length (Power Optimizers)	8	13	
Maximum String Length (Power Optimizers)	30	30	
Maximum Power per String	6000 <sup>(6)</sup>	12750 <sup>(7)</sup>	W
Parallel Strings of Different Lengths or Orientations	Yes		

<sup>(3)</sup> 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.

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

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

<sup>(6)</sup> 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.

<sup>(7)</sup> 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.

