

SolarEdge Power Optimizer

Frame-Mounted Module Add-On for Commercial Installations P600 / P700



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 module 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



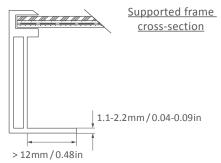
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Frame-mounted Module Add-On for Commercial Installations P600 / P700

	P600 (for 2 x 60-cell PV modules)	P700 (for 2 x 72-cell PV modules)	
INPUT		,	
Rated Input DC Power ⁽¹⁾	600	700	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	96	125	Vdc
MPPT Operating Range	12.5 - 80	12.5 - 105	Vdc
Maximum Continuous Input Current (Isc)	10.1		
Maximum Efficiency	99.5		
Weighted Efficiency	98.6		
Overvoltage Category	II		
OUTPUT DURING OPERATION (POWER O	PTIMIZER CONNECTED TO OPERATING SOL	AREDGE INVERTER)	
Maximum Output Current	15		
Maximum Output Voltage	85		
OUTPUT DURING STANDBY (POWER OPT	IMIZER DISCONNECTED FROM SOLAREDGE	INVERTER OR SOLAREDGE INVERTER O	FF)
Safety Output Voltage per Power Optimizer	1		
STANDARD COMPLIANCE			
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3		
Safety	IEC62109-1 (class II safety), UL1741		
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)	139 x 165 x 56 / 5.5 x 6.5 x 2.2	139 x 165 x 63 \ 5.5 x 6.5 x 2.5	mm / in
Weight (including cables)	954 / 2.1	1053 / 2.3	gr / lb
Input Connector	MC4 ⁽²⁾		
Output Connector	MC4		
Output Wire Length	1.8 / 5.9	2.1 / 6.9	m / ft
Operating Temperature Range	-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 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.

PV SYSTEM DESIGN USING A SOLAREDGE INVERTER ⁽⁴⁾⁽⁵⁾	THREE PHASE SE15K AND LARGER	THREE PHASE SE16K AND LARGER	THREE PHASE SE33.3K	
Compatible Power Optimizers	P600	P600 & P700		
Minimum String Length (Power Optimizers)	13			
Maximum String Length (Power Optimizers)		30		
Maximum Power per String	11250 ⁽⁶⁾		12750 ⁽⁷⁾	W
Parallel Strings of Different Lengths or Orientations	Yes			



⁽a) P600 and P700 can be mixed in one string. It is not allowed to mix P600/P700 with P300/P350/P404/P405/P500 in one string > 12 mm/0.48 in a case of odd number of PV Modules in one string it is allowed to install one P600/P700 power optimizer connected to one PV Module.
(b) 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.
(7) 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.