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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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SolarEdge Power Optimizer

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					
OUTPUT DURING OPERATION (POWER OPT	IMIZER CONNECTED TO OPERATING SOL	AREDGE INVERTER)			
Maximum Output Current	15				
Maximum Output Voltage	85				
OUTPUT DURING STANDBY (POWER OPTIM	IIZER DISCONNECTED FROM SOLAREDGE	INVERTER OR SOLAREDGE INVERTER O	FF)		
Safety Output Voltage per Power Optimizer	1	1			
STANDARD COMPLIANCE					
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3				
Safety	IEC62109-1 (class II safety), UL1741				
RoHS	Yes	S			
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	100	0	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				
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			
Compatible Power Optimizers	P600	P600 & F	P700	
Minimum String Length (Power Optimizers)	13			
Maximum String Length (Power Optimizers)	30			
Maximum Power per String	112	.50 ⁽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
(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.
(c) For SE32.3K: 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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