

SolarEdge Power Optimizer

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



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

	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 Short Circuit Current (Isc)	10		Adc
Maximum DC Input Current	12.5		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
OUTPUT DURING OPERATION (POWER OPTIMIZER C	ONNECTED TO OPERATING II	NVERTER)	
Maximum Output Current	15		Adc
Maximum Output Voltage	85		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	CONNECTED FROM INVERTER	R OR 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	480Vac Three Phase Inverters	Vdc
Maximum Allowed System Voltage	1000		
Dimensions (W x L x H)	143 x 210 x 45 /	143 x 210 x 45 / 5.63 x 8.26 x 1.75	
Weight (including cables)	1100 / 2.4		gr / lb
Input Connector	MC4 / Amphenol / Tyco		
Output Wire Type / Connector	Double Insulated; Amphenol		
Output Wire Length	1.8 / 5.9	2.1 / 6.9	m / ft
Operating Temperature Range ⁽²⁾	-40 - +85 / -40 - +185		°C / °F
Protection Rating	IP65 / NEMA4		
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 SOLAREDGE INVERTER ⁽³⁾⁽⁴⁾		THREE PHASE 208V	THREE PHASE 480V	
Compatible Power Optimizers		P600	P600 & P700	
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	12750	W
Parallel Strings of Different Lengths or Orientations		Yes		

⁽³⁾ P600 and P700 can be mixed in one string. It is not allowed to mix P600/P700 with P300/P350/P500 in one string.
(4) 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.