



SolarEdge Power Optimizer

Module Add-On For North America

P300 / P320 / P370 / P400 / P405



PV power optimization at the module-level

- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Module-level voltage shutdown for installer and firefighter safety

POWER OPTIMIZER



SolarEdge Power Optimizer

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P300 / P320 / P370 / P400 / P405

	P300 (for 60-cell mod- ules)	P320 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P405 (for thin film modules)	
INPUT						
Rated Input DC Power ⁽¹⁾	300	320	370	400	405	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	125		Vdc
MPPT Operating Range	8 - 48	8 - 60	8 - 80	12.5 - 105		Vdc
Maximum Short Circuit Current (Isc)	10	11		10.1		Adc
Maximum DC Input Current	12.5	13.75		12.63		Adc
Maximum Efficiency		99.5				%
Weighted Efficiency		98.8				%
Overvoltage Category		II				
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)						
Maximum Output Current		15				Adc
Maximum Output Voltage		60		85		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE 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						
Maximum Allowed System Voltage		1000				Vdc
Compatible inverters		All SolarEdge Single Phase and Three Phase inverters				
Dimensions (W x L x H)		128 x 152 x 27.5 / 5 x 5.97 x 1.08		128 x 152 x 35 / 5 x 5.97 x 1.37		mm / in
Weight (including cables)		630 / 1.4		750 / 1.7		gr / lb
Input Connector	MC4 Compatible	MC4 / Amphenol AH4		MC4 Compatible		
Output Wire Type / Connector	Double Insulated; MC4 Compatible	Double Insulated; MC4 / Amphenol AH4		Double Insulated; MC4 Compatible		
Output Wire Length	0.95 / 3.0			1.2 / 3.9		m / ft
Operating Temperature Range		-40 - +85 / -40 - +185				°C / °F
Protection Rating		IP68 / NEMA6P				
Relative Humidity		0 - 100				%

⁽¹⁾ Rated STC power of the module. Module of up to +5% power tolerance allowed.

PV SYSTEM DESIGN USING A SOLAREDGE INVERTER ⁽²⁾⁽³⁾	SINGLE PHASE HD-WAVE	SINGLE PHASE	THREE PHASE 208V	THREE PHASE 480V	
Minimum String Length (Power Optimizers)	8		10	18	
Maximum String Length (Power Optimizers)	25		25	50	
Maximum Power per String	5700 (6000 with SE7600H-US)	5250	6000	12750	W
Parallel Strings of Different Lengths or Orientations		Yes			

⁽²⁾ For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf.

⁽³⁾ It is not allowed to mix P405 with P300/P370/P400/P600/P700 in one string.

