

## **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



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	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 <sup>(1)</sup>	300	320	370	400	405	W	
Absolute Maximum Input Voltage	48		60	80	125	Vdc	
(Voc at lowest temperature)	48		60	80	125	Vac	
MPPT Operating Range	8 - 48		8 - 60	8 - 80	12.5 - 105	Vdc	
Maximum Short Circuit Current (Isc)	10	10 11		10.1		Adc	
Maximum DC Input Current	12.5	12.5 13.75			12.63		
Maximum Efficiency	99.5					%	
Weighted Efficiency	98.8						
Overvoltage Category							
OUTPUT DURING OPERATION (POWE	R OPTIMIZER CONNE	CTED TO OPERATIN	IG SOLAREDGE INVE	RTER)			
Maximum Output Current		15					
Maximum Output Voltage	60 85					Vdc	
OUTPUT DURING STANDBY (POWER O	PTIMIZER DISCONN	ECTED FROM SOLAI	REDGE INVERTER OR	SOLAREDGE INVER	TER OFF)		
Safety Output Voltage per Power	1						
Optimizer STANDARD COMPLIANCE							
		FCC D= ++1F (	Class D. JECC1000 C 2	IECC1000 C 2			
EMC Safety RoHS	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3  IEC62109-1 (class II safety), UL1741  Yes						
INSTALLATION SPECIFICATIONS	1						
Maximum Allowed System Voltage	1000					Vdc	
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters						
					128 x 152 x 50 /		
Dimensions (W x L x H)	128 x	128 x 152 x 27.5 / 5 x 5.97		5 x 5.97 x 1.37	5 x 5.97 x 1.96	'   mm / in	
Weight (including cables)	630 / 1.4			750 / 1.7	845 / 1.9	gr / lb	
Input Connector	MC4 Co	MC4 Compatible MC4 / Amphenol AH4		MC4 Compatible			
,	Double Insulated;						
Output Wire Type / Connector	Double Insulated; MC4 Compatible 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					%	
Rated STC nower of the module Module of up to +5%	l		0 - 100	• • • • • • • • • • • • • • • • • • • •		1	

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

PV SYSTEM DESIGN USING A SOLAREDGE INVERTER <sup>(2)(3)</sup>	SINGLE PHASE HD-WAVE	SINGLE PHASE	THREE PHASE 208V	THREE PHASE 480V		
Minimum String Length (Power Optimizers)	8	3	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					

<sup>&</sup>lt;sup>(2)</sup> For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string\_sizing\_na.pdf. <sup>(3)</sup> It is not allowed to mix P405 with P300/P370/P400/P600/P700 in one string.

