

SolarEdge Power Optimizer

Frame-Mounted Module Add-On for North America P320



Fast mount power optimizers with module-level optimization

- Specifically designed to work with SolarEdge inverters
- 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 modules mismatch-loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Next generation maintenance with module level monitoring
- Compliant with arc fault protection and rapid shutdown NEC requirements (when installed as part of the SolarEdge system)
- Module-level voltage shutdown for installer and firefighter safety

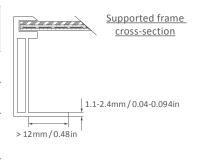


SolarEdge Power Optimizer Frame-Mounted Module Add-On for North America P320

Optimizer model (typical module compatibility)	P320 (for high-power 60-cell modules)		
INPUT			
Rated Input DC Power ⁽¹⁾	300	W	
Absolute Maximum Input Voltage	48	Vdc	
(Voc at lowest temperature)	48	vac	
MPPT Operating Range	8 - 48	Vdc	
Maximum Short Circuit Current (Isc)	11	Adc	
Maximum DC Input Current	13.75	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		
OUTPUT DURING STANDBY (POWER OPTIMIZER DI	SCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVER	TER OFF)	
Safety Output Voltage per Power Optimizer	1 ± 0.1	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 28 / 5 x 5.97 x 1.1	mm / iı	
Weight (including cables)	630 / 1.4	gr / lb	
Input Connector	MC4 Compatible		
Output Wire Type / Connector	Double Insulated; MC4 Compatible		
Output Wire Length	0.95 / 3.0	m / ft	
Operating Temperature Range	-40 - +85 / -40 - +185		
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⁾	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 ⁽³⁾	
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⁾ A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement