



## SolarEdge Power Optimizer Module Add-On



### A superior approach to maximizing the throughput of photovoltaic systems using module embedded electronics

- Up to 25% increase in power output
- Superior efficiency (99.5%) - peak performance in both mismatched and unshaded conditions
- Flexible system design for maximum space utilization
- Next generation maintenance with module level monitoring and smart alerts
- Unprecedented installer and firefighter safety
  
- **The most cost effective solution for residential, commercial and large field installations**



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# SolarEdge Power Optimizer OP250-LV OP300-MV Module Add-On OP400-MV

## HIGHLIGHTS

- Module level MPPT - optimizes each module independently
- Module-level monitoring for automatic module and string level fault detection allowing easy maintenance
- Electric arc detection - reduces fire hazards
- Unprecedented installer and firefighter safety mode - safe module voltage when inverter is disconnected or off
- Allows parallel uneven length strings and multi-faceted installations
- Immediate installation feedback for quick commissioning

## TECHNICAL DATA

	OP250-LV	OP300-MV/OP400-MV	
<b>INPUT</b>			
Rated Input DC power	250	300 / 400	W
Absolute Maximum Input Voltage (Voc)	55	75	Vdc
MPPT Operating Range	5 - 55	5 - 75	Vdc
Maximum Input Current	10	10	Adc
Reverse-Polarity Protection	Yes		
Maximum Efficiency	99.5		%
European Weighted Efficiency	98.8		%
CEC Weighted Efficiency	98.7		%
Inductive Lightning Protection	1		m / ft
Overvoltage Category	II		
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER)</b>			
Maximum Output Current	15		Adc
Operating Output Voltage	5 - 60		Vdc
Total Maximum String Voltage (Controlled by Inverter) - US and EU 1-ph	500		Vdc
Total Maximum String Voltage (Controlled by Inverter) - EU 3-ph	950		Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)</b>			
Safety Output Voltage per Power Optimizer	1		Vdc
<b>PV SYSTEM DESIGN</b>			
Minimum Number of Power Optimizers per String (1 or More Modules per power optimizer)	8 (1-ph system) / 16 (3-ph system)		
Maximum Number of Power Optimizers per String (1 or More Modules per power optimizer)	Module power dependent; typically 20 - 25 (1-ph system) / 45 - 50 (3-ph system)		
Parallel Strings of Different Lengths or Orientations	Yes		
<b>STANDARD COMPLIANCE</b>			
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3		
Safety	IEC-62103 (class II safety), UL1741		
Material	UL-94 (5-VA), UV Resistant		
RoHS	Yes		
<b>INSTALLATION SPECIFICATIONS</b>			
Dimensions (WxLxH)	120x130x37 / 4.72x5.11x1.45		mm / in
Weight	450 / 1.0		gr / lb
Output PV Wire	0.95 m / 3 ft length ; 6 mm <sup>2</sup> ; MC4		
Input Connector	MC4 / MC3 / Tyco / H+S		
Operating Temperature Range	-40 - +65 / -40 - +150		°C / °F
Protection Rating	IP65 / NEMA 4		
Relative Humidity	0 - 100		%

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