



# SolarEdge Power Optimizer

Module Add-On

OP250-LV / OP300-MV / OP400-MV / OP400-EV



POWER OPTIMIZERS

## PV power optimization at the module-level

- 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
- Module-level voltage shutdown for installer and firefighter safety



# SolarEdge Power Optimizer Module Add-On

OP250-LV / OP300-MV / OP400-MV / OP400-EV

	OP250-LV	OP300-MV/OP400-MV	OP400-EV	
<b>INPUT</b>				
Rated Input DC Power*	250	300 / 400	400	W
Absolute Maximum Input Voltage (Voc)	55	75	125	Vdc
MPPT Operating Range	5 - 55	5 - 75	15 - 125	Vdc
Maximum Continuous Input Current (Isc)	10	10	7	Adc
Maximum Efficiency		99.5		%
European Weighted Efficiency		98.8		%
CEC Weighted Efficiency		98.7		%
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) - 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 USING A SOLAREEDGE INVERTER</b>				
Minimum String Length (Power Optimizers; 1 or More Modules per Power Optimizer)		8 (1-ph system)		
		16 (3-ph system)		
Maximum String Length (Power Optimizers; 1 or More Modules per Power Optimizer)		25 (1-ph system)		
		50 (3-ph system)		
Maximum Power per String		5250 (1-ph system)		W
		11250 (3-ph system)		W
Parallel Strings of Different Lengths or Orientations		Yes		
<b>STANDARD COMPLIANCE</b>				
EMC		FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3		
Safety		IEC62109-1 (class II safety), UL1741		
Material		UL-94 (5-VA), UV Resistant		
RoHS		Yes		
<b>INSTALLATION SPECIFICATIONS</b>				
Dimensions (W x L x H)		143 x 210 x 45 / 5.63 x 8.26 x 1.75		mm / in
Weight		450 / 1.0		gr / lb
Output PV Wire (for portrait orientation)		0.95m / 3ft length**; 6mm <sup>2</sup>	1.6m / 5.25ft length; 6mm <sup>2</sup>	
Input Connector		MC4 / Tyco / H+S / Amphenol		
Output Connector		MC4		
Operating Temperature Range		-40 - +65 / -40 - +150		°C / °F
Protection Rating		IP65 / NEMA4		
Relative Humidity		0 - 100		%

\* Rated STC power of the module. Module of up to +5% power tolerance allowed.

\*\* Output PV Wire (for landscape orientation): OP400-MV is available with 1.2m/3.9ft wire (P/N should be OP400-MV-zzzzz-4UL).

