



SolarEdge Power Optimizer

Module Add-On For North America

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



POWER OPTIMIZER

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
- Next generation maintenance with module-level monitoring
- Module-level voltage shutdown for installer and firefighter safety



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	OP250-LV	OP300-MV	OP400-MV	OP400-EV	
INPUT					
Rated Input DC Power*	250	300	400	400	W
Absolute Maximum Input Voltage (Voc)	55	75	75	125	Vdc
MPPT Operating Range	5 - 55	5 - 75	5 - 75	15 - 125	Vdc
Maximum Short Circuit Current (Isc) of connected PV Module	10	10	10	7	Adc
Maximum DC Input Current	12.5	12.5	12.5	8.75	Adc
Maximum Efficiency	99.5				%
Weighted Efficiency	98.8				%
Overvoltage Category	II				
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER)					
Maximum Output Current	15				Adc
Operating Output Voltage	5 - 60				Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR 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				
Material	UL-94 (5-VA), UV Resistant				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
Maximum Allowed System Voltage	1000				Vdc
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
Input Connector	MC4 / Tyco / H+S / Amphenol – H4				
Output Wire Type	Double insulated; 6mm ² ; MC4				
Output Wire Length	0.95 / 3.0	0.95 / 3.0	1.2 / 3.9	1.6 / 5.25	m / ft
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.

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER	SINGLE PHASE			THREE PHASE 208V	THREE PHASE 480V
	Minimum String Length (Power Optimizers)	8	8	8	18
Maximum String Length (Power Optimizers)	25	25	25	50	
Maximum Power per String	5250	6000	6000	12750	W
Parallel Strings of Different Lengths or Orientations	Yes				

