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SolarEdge Power Optimizer

Module Add-On

A superior approach to maximizing the throughput of photovoltaic systems

- Up to 25% increase in power output
- Superior efficiency (99.5%) - peak performance in both mismatched & unshaded conditions
- Next generation maintenance with module level monitoring & smart alerts
- Unprecedented installer & firefighter safety
- Independent optimization technology (IndOP™) - allows operation with any inverter and requires no additional interface hardware
- Designed for extreme environmental conditions

- **The most cost effective solution for residential, commercial & large field installations**

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SolarEdge Power Optimizer Module Add-On

OPA250-RV / OPA300-LV / OPA400-MV / OPA400-EV

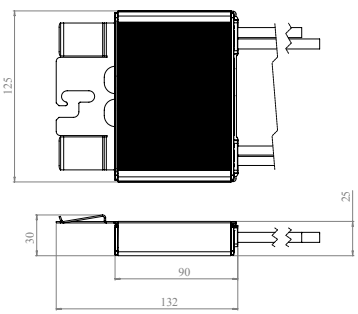
HIGHLIGHTS

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

TECHNICAL DATA

	OPA250-RV	OPA300-LV	OPA400-MV	OPA400-EV	
INPUT					
Rated Input DC power (*)	250	300	400	400	W
Absolute Maximum Input Voltage (Voc)	47	55	75	130	Vdc
MPPT Operating Range	5 - 47	5 - 55	5 - 75	15 - 130	Vdc
Maximum Input Current (Isc)	10	10	12.5	7	Adc
Reverse-Polarity Protection	Yes				
Maximum Efficiency	99.5				%
Weighted Efficiency	98.9				%
Overvoltage Category	II				
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER)					
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
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)					
Safety Output Voltage per Power Optimizer	1				Vdc
PV SYSTEM DESIGN USING A SOLAREDGE INVERTER					
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; maximum 25 (1-ph system) / 50 (3-ph system)				
Maximum Power per String	5250 (1-ph system) / 11250 (3-ph system)				W
Parallel Strings of Different Lengths or Orientations	Yes				
STANDARD COMPLIANCE					
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				
INSTALLATION SPECIFICATIONS					
Dimensions includ. mounting bracket (W x L x H)	125 x 132 x 30 / 4.9 x 5.2 x 1.2				mm / in
Dimensions exclud. mounting bracket (W x L x H)	125 x 90 x 25 / 4.9 x 3.5 x 1.0				mm / in
Net Weight (Weight Includ. cables)	400 (800) / 0.8 (1.7)				gr / lb
Output Wire Type	Double insulated PV wire; 6 mm^2 ; MC4				
Output Wire Length	0.95 m / 3 ft	0.95 m / 3 ft	1.2 m / 4 ft	1.5 m / 5 ft	
Operating Temperature Range	-40 - +85 / -40 - +185				˚C / ºF
Input Connector	MC4 / MC3 / Tyco		H+S / Amphenol		
Protection Rating (Connector dependent)	IP67 / NEMA 4		IP68 / NEMA 6P		
Relative Humidity	0 - 100				%

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



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