

solaredge

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	
INPUT				
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			
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) - 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 SOLAREEDGE INVERTER				
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			
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				
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 ²		1.6m / 5.25ft length; 6mm ²	
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).

