



# SolarEdge Power Optimizer

Frame-Mounted Module Add-On

P300 / P350 / P404 / P500



POWER OPTIMIZER

## Fast mount power optimizers with module-level optimization

- Quicker installation - Power optimizers can be mounted in advance saving installation time
- 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

Frame-mounted Module Add-On P300 / P350 / P404 / P500

	P300 (for 60-cell modules)	P350 (for high-power 60-cell and for 72-cell modules)	P500 (for 96-cell modules)	P404 (for 60-cell and 72-cell, short strings)	
<b>INPUT</b>					
Rated Input DC Power <sup>(1)</sup>	300	350	500	405	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	80	Vdc
MPPT Operating Range	8 - 48	8 - 60	8 - 80	12.5 - 80	Vdc
Maximum Continuous Input Current (Isc)	10	11	10.1		Adc
Maximum Efficiency					99.5
Weighted Efficiency					98.8
Overvoltage Category					II
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)</b>					
Maximum Output Current					15
Maximum Output Voltage			60	85	Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)</b>					
Safety Output Voltage per Power Optimizer					1
<b>STANDARD COMPLIANCE</b>					
EMC					FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3
Safety					IEC62109-1 (class II safety), UL1741
RoHS					Yes
Fire Safety					VDE-AR-E 2100-712:2013-05
<b>INSTALLATION SPECIFICATIONS</b>					
Maximum Allowed System Voltage					1000
Dimensions (W x L x H)	139 x 165 x 41 / 5.47 x 6.5 x 1.61		139 x 165 x 49 / 5.47 x 6.5 x 1.93	139 x 165 x 56 / 5.47 x 6.5 x 2.2	mm / in
Weight (including cables)	880 / 1.94		950 / 2.1	1065 / 2.34	gr / lb
Input Connector					MC4 <sup>(2)</sup>
Output Connector					MC4
Output Wire Length	0.95 / 3.0		1.2 / 3.9		m / ft
Operating Temperature Range					-40 - +85 / -40 - +185
Protection Rating					IP68 / NEMA6P
Relative Humidity					0 - 100

<sup>(1)</sup> Rated STC power of the module. Module of up to +5% power tolerance allowed.

<sup>(2)</sup> For other connector types please contact SolarEdge.

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER	SINGLE PHASE	THREE PHASE	
Minimum String Length (Power Optimizers)	8	16	
Maximum String Length (Power Optimizers)	25	50	
Maximum Power per String	5250	11250	W
Parallel Strings of Different Lengths or Orientations	Yes		

