



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



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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)	
INPUT					
Rated Input DC Power ⁽¹⁾	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
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)					
Maximum Output Current					15
Maximum Output Voltage			60	85	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)					
Safety Output Voltage per Power Optimizer					1
STANDARD COMPLIANCE					
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
INSTALLATION SPECIFICATIONS					
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)	750 / 1.65	775 / 1.7	870 / 1.9	895 / 2.0	gr / lb
Input Connector					MC4 ⁽²⁾
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

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

⁽²⁾ For other connector types please contact SolarEdge.

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER	SINGLE PHASE HD-WAVE		SINGLE PHASE		THREE PHASE	
Minimum String Length (Power Optimizers)	8				16	
Maximum String Length (Power Optimizers)	25				50	
Maximum Power per String	5700	5250			11250 W	
Parallel Strings of Different Lengths or Orientations			Yes			

