SolarEdge Power Optimizer

Module Add-On

P300 / P350 / P500

POWER OPTIMIZER



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
- Fast installation with a single bolt
- Next generation maintenance with module level monitoring
- Module-level voltage shutdown for installer and firefighter safety

SolarEdge Power Optimizer Module Add-On

P300 / P350 / P500

	P300 (for 60-cell PV modules)	P350 (for 72-cell PV modules)	P500 (for 96-cell PV modules)	
INPUT				
Rated Input DC Power[1]	300	350	500	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	Vdc
MPPT Operating Range	8 - 48	8 - 60	8 - 80	Vdc
Maximum Continuous Input Current (Isc)	10			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
Maximum Output Voltage	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			
RoHS	Yes			
Fire Safety	VDE-AR-E 2100-712:2013-05			
INSTALLATION SPECIFICATIONS				
Maximum Allowed System Voltage	1000			Vdc
Dimensions (W x L x H)	141 x 212 x 40.5 / 5.55 x 8.34 x 1.59			mm / in
Weight (including cables)	950 / 2.1			gr / lb
Input Connector	MC4 / Amphenol / Tyco / H+S			
Output Connector	MC4			
Output Wire Length	0.95 / 3.0	0.95 / 3.0 or 1.2 / 3.9	1.2 / 3.9	m / ft
Operating Temperature Range	-40 - +85 / -40 - +185			˚C / ˚F
Protection Rating	IP65 / NEMA4			
Relative Humidity	0 - 100			%

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

PV SYSTEM DESIGN USING A SOLAREDGE 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		

CE

© SolarEdge Technologies, Inc. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. 10/2013. V.01. Subject to change without notice.