

SolarEdge Power Optimizer

Module Add-On

P300 / P350 / P404 / P405 / P500



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



P300 / P350 / P404 / P405 / 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)	P405 (for thin film modules)			
INPUT						,		
Rated Input DC Power ⁽¹⁾	300	350	500	405	405	W		
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	80	125	Vdc		
MPPT Operating Range	8 - 48	8 - 60	8 - 80	12.5 - 80	12.5 - 105	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 CONNE	ECTED TO OPERAT	ING SOLAREDGE	INVERTER)				
Maximum Output Current		15						
Maximum Output Voltage		60 85						
OUTPUT DURING STANDBY (POWER OP	TIMIZER DISCONN	ECTED FROM SOL	AREDGE INVERTI	ER OR SOLAREDG	E INVERTER OFF)			
Safety Output Voltage per Power Optimizer	-		1			Vdc		
STANDARD COMPLIANCE								
EMC Safety	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3 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)	128 x 152 x 27.	128 x 152 x 27.5 / 5 x 5.97 x 1.08		128 x 152 x 43 / 5 x 5.97 x 1.69	128 x 152 x 50 / 5 x 5.97 x 1.96	mm / ir		
Weight (including cables)	630 / 1.4	655 / 1.5	750 / 1.7	775 / 1.7	845 / 1.9	gr / lb		
Input Connector	MC4 ⁽²⁾ Single or Dual MC4 ⁽³⁾							
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					%		

⁽³⁾ Rated STC power of the module. Module of up to +5% power tolerance allowed. (2) For other connector types please contact SolarEdge.

⁽³⁾ Dual version for parallel connection of 2 thin film modules; P/N: P405-5RMDMRM.

PV SYSTEM DESIGN USING SOLAREDGE INVERTER ⁽⁴⁾	i A	SINGLE PHASE HD-WAVE	SINGLE PHASE	THREE PHASE	
Minimum String Length	P300,P350,P500	8		16	
(Power Optimizers)	P404,P405	6		13	
Maximum String Length (Power Optimizers)		25		50	
Maximum Power per String		5700	5250	11250	W
Parallel Strings of Different Lengths or Orientations		Yes			

⁽⁴⁾ It is not allowed to mix P404/P405 with P300/P350/P500/P600/P700 in one string.

