

## **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 (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 <sup>(1)</sup>	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 OF	PTIMIZER CONNE	CTED TO OPERAT	ING SOLAREDGE	INVERTER)		'
Maximum Output Current	15					Adc
Maximum Output Voltage	60 85				5	Vdc
<b>OUTPUT DURING STANDBY (POWER OPTI</b>	MIZER 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 27.5	5 / 5 x 5.97 x 1.08	128 x 152 x 35 / 5 x 5.97 x 1.37	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 / in
Weight (including cables)	760	) / 1.7	830 / 1.8	994 / 2.1	1064 / 2.3	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					°C/°F
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 SOLAREDGE INVERTER <sup>(3)</sup>	А	SINGLE PHASE	THREE PHASE	
Minimum String Length	P300,P350,P500	8	16	
(Power Optimizers)	P404,P405	6	13	
Maximum String Length (Pow	ver Optimizers)	25	50	
Maximum Power per String		5250	11250	W
Parallel Strings of Different Lengths or Orientations		Yes		

 $<sup>^{(3)}</sup>$  It is not allowed to mix P404/P405 with P300/P350/P500/P600/P700 in one string.