

SolarEdge Power Optimizer

for Australia
Module Add-On

P300 / P350 / P404 / P405 / P500



PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- 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 for Australia

Module Add-On 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		-			1			
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	L	Adc		
Maximum Efficiency	99.5							
Weighted Efficiency	98.8							
Overvoltage Category	II							
OUTPUT DURING OPERATION (POWER O	PTIMIZER CONNEC	CTED TO OPERATING	OLAREDGE INVER	TER)		,		
Maximum Output Current	15							
Maximum Output Voltage	60 85							
OUTPUT DURING STANDBY (POWER OPTI	MIZER DISCONNE	CTED FROM SOLARED	GE INVERTER OR S	SOLAREDGE INVER	TER 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)	128 x 152 x 27	7.5 / 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 / 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					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.
 (3) Dual version for parallel connection of 2 thin film modules; P/N: P405-5RMDMRM.

PV SYSTEM DESIGN USING A SOLAREDGE INVERTER ⁽⁴⁾		SINGLE PHASE HD-WAVE	SINGLE PHASE	THREE PHASE RESIDENTIAL E-SERIES ⁽⁵⁾	THREE PHASE COMMERCIAL	
Minimum String Length (Power Optimizers)	P300, P350, P500	8		8 per array	16	
	P404, P405	6		7 per array	13	
Maximum String Length (Power Optimizers)		25		15 per array	50	
Maximum Power per String		5700	52	50	11250	W
Parallel Strings of Different Lengths or Orientations		Yes				
Notes				Connect 2 arrays		

⁽⁴⁾ It is not allowed to mix P404/P405 with P300/P350/P500 in one string. With the E-Series inverters, use either P404/P405 optimizers or P300/P350/P500 optimizers.

⁽⁵⁾ Optimizers must be connected in two separate arrays. For complete design guidelines for the E-Series inverters refer to: http://www.solaredge.com/sites/default/files/se_inverter_installation_guide_e_series_ $addendum_aus.pdf$