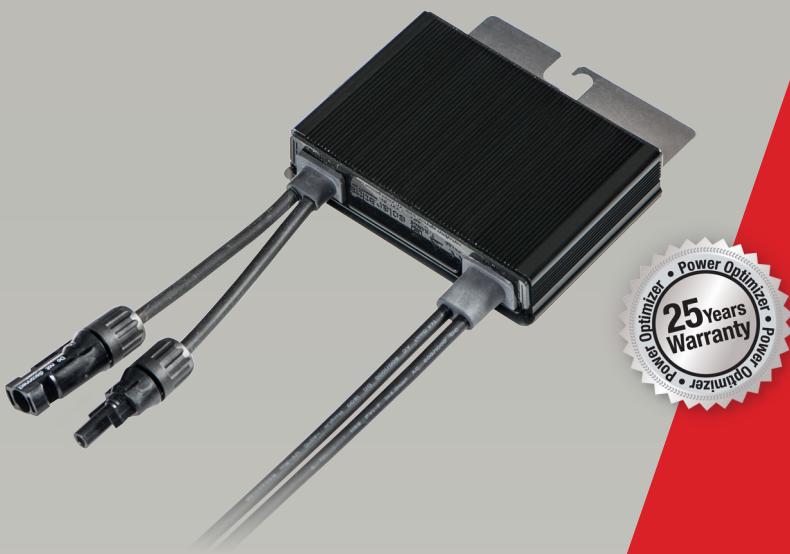




SolarEdge Power Optimizer

for Australia
Module Add-On

P300 / P350 / P404 / P405 / P500



POWER OPTIMIZER

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						
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 CONNECTED TO OPERATING SOLAREEDGE INVERTER)						
Maximum Output Current			15			Adc
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			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)	128 x 152 x 27.5 / 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)	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	1.2 / 3.9			m / ft
Operating Temperature Range	-40 - +85 / -40 - +185					°C / °F
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-SRMDMRM.

PV SYSTEM DESIGN USING A SOLAREEDGE 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		5250	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

