Power Optimiser For Australia

P650 / P730 / P800p / P850



POWER OPTIMISER

PV power optimisation at the module-level The most cost effective solution for commercial and large field installations

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Balance of System cost reduction; 50% less cables, fuses and combiner boxes, over 2x longer string lengths possible

- Fast installation with a single bolt
- Advanced maintenance with module-level monitoring
- Module-level voltage shutdown for installer and firefighter safety
- Use with two PV modules connected in series or in parallel



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Optimiser Model (Typical Module Compatibility)	P650 ⁽¹⁾ (for 2 x 60-cell PV modules)	P730 ⁽¹⁾ (for 2 x 72-cell PV modules)	P800p (for parallel connection of 2x 96- cell 5" PV modules)	P850 ⁽¹⁾ (for series connection of 2x high power or bi-facial modules)						
INPUT										
Rated Input DC Power ⁽²⁾	650	730	800	850	W					
Absolute Maximum Input Voltage (Voc at lowest temperature)	96	125	83	120	Vdc					
MPPT Operating Range	12.5 - 80	12.5 - 105	12.5 - 83	12.5 - 105	Vdc					
Maximum Short Circuit Current (Isc)	1	1	14	12.5	Adc					
Maximum Efficiency				%						
Weighted Efficiency	98.6									
Overvoltage Category	II									
OUTPUT DURING OPERATION (PO	OWER OPTIMISER C	ONNECTED TO OP	ERATING SOLAREDGE I	NVERTER)						
Maximum Output Current	1	5		18	Adc					
Maximum Output Voltage	85									
OUTPUT DURING STANDBY (POV	VER OPTIMISER DIS	CONNECTED FROM	1 SOLAREDGE INVERTE	R OR SOLAREDGE INVERTE	R OFF)					
Safety Output Voltage per Power Optimiser	1 ± 0.1									
STANDARD COMPLIANCE	1									
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3									
Safety	IEC62109-1 (class II safety)									
RoHS	Yes									
Fire Safety	VDE-AR-E 2100-712:2013-05									
INSTALLATION SPECIFICATIONS	1				_					
Compatible SolarEdge Inverters	Three phas SE15K &	se inverters & larger	Three phase inverters SE16K & larger							
Maximum Allowed System Voltage			Vdc							
Dimensions (W x L x H)	129 x 153 x 42.5	129 x 153 x 49.5	129 x 168 x 59	129 x 162 x 59	mm					
Weight (including cables)	834	933			gr					
Input Connector ⁽³⁾	M	C4	MC4 Dual Input ⁽⁷⁾	MC4						
Output Connector			MC4	I						
Output Wire Length	2.2									
Input wire length	0.16	0.16 / 0.9(4)	0.16	0.16 / 0.9 ⁽⁴⁾ / 1.3 ⁽⁴⁾	m					
Operating Temperature Range ⁽⁵⁾	-40 - +85									
Protection Rating	IP68 / NEMA6P									
Relative Humidity	0 - 100									

Posto replaced the Polity, P730 replaced the P700, Posto replaced the Polity, each pair can be used interchargeably and can be connected in the same same sumg.
 Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed.
 For other connector types please contact SolarEdge.
 Longer inputs wire length are available for use with split junction box modules (For 0.9m order P730-xxxLxxx or P850-xxxLxxxx.).
 For ambient temperature above +70°C power de-rating is applied. Refer to Power Optimisers Temperature De-Rating Application Note for more details.

PV System Design Using a Solaredge Inverter ⁽⁶⁾⁽⁷⁾		Three Phase SE15K		Three Phase SE16K and larger				
Compatible Power Optimisers		P650	P730	P650	P730	P800p	P850	
Minimum String Length	Power Optimisers	13						
	PV Modules	26						
Maximum String Length	Power Optimisers	30						
	PV Modules	60						
Maximum Power per String		11250(8) 13500					500	W
Parallel Strings of Different Lengths or Orientations		Yes						

[©] P650 and P730 can be mixed in one sring. It is not allowed to mix P650/P730 with P800p/P850 or to mix P650/P730/P800p/P850 with P320/P370/P500/P404/P405/P505 in one string. On a case of odd number of PV modules in one string it is allowed to install one P650/P730/P800p/P850 power optimiser connected to one PV module. When connecting a single module to the P800p seal the unused input connectors with the supplied pair of seals.

© For SE27.6K and SE82.8K: It is allowed to install up to 13,500W per string when 3 strings are connected to the inverter (3 strings per unit when using SE82.8K) and when the maximum power difference between the strings is up to 2,000W; inverter max DC power: 37,250W.

