

SOLAREDGE COMMERCIAL Power optimiser

POWER OPTIMISER MODULE ADD-ON P850

The SolarEdge commercial range of Power Optimisers are DC/DC converters that connect to two panels to monitor and control their collective performance.

This design feature ensures fewer system components, faster installations and cost reductions. The performance of the system is improved by mitigating mismatch losses caused by partial shading.





SUITABLE FOR COMMERCIAL APPLICATIONS



HOW YOU BENEFIT



HIGH EFFICIENCY

Superior efficiency of up to 99.5%, generating more power from your PV system.



FLEXIBLE DESIGN

Panel level management allows flexible designs and increased power production.



SAFE OPERATION

Automatic panel-level voltage shutdown feature for installer and firefighter safety.



COST EFFECTIVE

Save on Balanceof-System (BOS) components and reduced installation times.



SOLAHART WARRANTY

Enjoy a 12-year warranty, for peace of mind.*

Technical Data

OWER OPTIMISER TECHNICAL DATA	P850
UWER OPTIMISER TECHNICAL DATA	P800
nput (DC)	
ated input DC power	850 W
bsolute maximum input voltage (Voc at lowest temperature)	125 Vdc
IPPT operating range	12.5 - 105 Vdc
laximum short circuit input current (lsc)	12.5 Adc
laximum shore circuit input current (isc)	99.5%
/eighted efficiency	98.6%
Vervoltage category	II
Dutput During Operation (when connected to operating SolarEdge invert	
laximum DC output current	18 Adc
laximum DC output voltage	80 Vdc
	00,440
Output During Standby (when disconnected from SolarEdge inverter or in	werter off)
afety output voltage per Power Optimiser	1 ± 0.1 Vdc
nstallation Specifications	
ompatible SolarEdge inverters	Three-Phase inverters SE15K & larger
laximum allowed system voltage (DC)	1000 Vdc
imensions (W x L x H)	129 x 162 x 59 mm
/eight (including cables)	1064 g
put connector	MC4
	1.30 m
nput wire length	
Output connector	MC4
Dutput wire length	2.2 m
perating temperature range	-40°C to +85°C
rotection rating	IP68 / NEMA6P
elative humidity	0 - 100%
roduct Details	
olarEdge part number	P850
olahart Warranty	12 years*
V System Design using a SolarEdge Inverter (1) (2)	P850 with Three-phase Commercial Inverter
1inimum string length (Power Optimisers)	14
laximum string length (Power Optimisers)	30
laximum power per string ⁽³⁾	P850 =13500 W
arallel strings of different lengths or orientations	Yes
tandard Compliance	
MC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3
afety	IEC 62109-1 (class II safety)
oHS	Yes
ire safety	VDE-AR-E 2100-712:2013-05
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POWER OF	PTIMISER INVERTER
t is not allowed to mix P850 with P370/P404/P401/P505 in one string.	

* For full details see Solahart Owner's Guide & Installation Instructions.



Specifications and designs included in this data sheet are subject to change without notice.
Solahart Australia 1300 769 475 | www.solahart.com.au
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