# **Power Optimizer**

# **Service Model for Commercial Systems**

R800



# POWER OPTIMIZER

## R-Series Service Power Optimizers for P-Series RMA

### Simpler Service and O&M

- Cable layout similar to the P-series power optimizers for faster replacement
- One fits all one part number can replace multiple power optimizer models for easier logistics

### High Safety with Support for All P-Series Features

- Automatic module-level voltage shutdown with SafeDC™, ensuring maximum protection of people and property
- Does not support Sense Connect

### **Compatibility Table**

P-Series Power Optimizer	RMA Power Optimizer
P600 / P605 / P650 / P700 /	R800
P701 / P730 / P801	



# / Power Optimizer

# **Service Model for Commercial Systems**

R800

	R800	UNIT
INPUT		'
Rated Input DC Power <sup>(1)</sup>	850	W
Absolute Maximum Input Voltage (Voc)	125	Vdc
MPPT Operating Range	12.5 – 105	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	15	Adc
Maximum Efficiency	99.5	%
Weighted Efficiency	98.8	%
Overvoltage Category	II	
OUTPUT DURING OPERTION		<u>'</u>
Maximum Output Current	15	Adc
Maximum Output Voltage	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DI	SCONNECTED FROM INVERTER OR INVERTER OFF)	<u> </u>
Safety Output Voltage per Power Optimizer	1	Vdc
STANDARD COMPLIANCE		<u> </u>
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011	
Safety	IEC62109-1 (class II safety)	
Material	UL94 V-0, UV Resistant	
RoHS	Yes	
Fire Safety	VDE-AR-E 2100-712:2013-05	
INSTALLATION SPECIFICATIONS		
PV Installation Type	P-Series Optimizer Replacement	
Maximum Allowed System Voltage	1000	Vdc
Dimensions (W x L x H)	129 x 155 x 45 / 5.08 x 6.10 x 1.77	mm / ir
Weight	946 / 2.1	gr / lb
Input Connector	MC4 <sup>(2)</sup>	
Input Wire Length	Short input option: 0.16 / 0.52 Long input option: 0.9 / 2.95	m / ft
Output Connector	MC4	
Output Wire Length	(+) 2.2, (-) 2.2 / (+) 7.22, (-) 7.22	m/ft
Operating Temperature Range <sup>(3)</sup>	-40 to +85 / -40 to 185	°C / °F
Protection Rating	IP68 / NEMA6P	
Relative Humidity	0 – 100	%

<sup>(1)</sup> Rated power of the module at STC will not exceed the Power Optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed.

<sup>(2)</sup> For other connector types please contact SolarEdge.
(3) For ambient temperatures above +70°C / +158°F, power derating is applied. Refer to the <u>Power Optimizers Temperature Derating</u> technical note for details.