SolarEdge Power Optimizer

Module Add-On
with IndOP™ technology

A superior approach to maximizing the throughput of photovoltaic systems

- Independent optimization technology (IndOP™) - allows operation with any inverter and requires no additional interface hardware
- Up to 25% increase in power output - module-level MPPT eliminates power loss due to module mismatch
- Superior efficiency - Peak (99.5%), Weighted (98.8%)
- Next generation maintenance with module-level monitoring and smart alerts
- Automatic DC Safety - safety during installation, maintenance and firefighting
- Maximum design flexibility allowing modules on multiple tilts and facets
- **Ideal for retrofitting existing installations**

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SolarEdge Power Optimizer OPI300-LV

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SOLUTION OVERVIEW

SolarEdge power optimizers can be installed with a Non-SolarEdge inverter without the need for additional interface hardware. In order to support module–level monitoring and safety capabilities, the SolarEdge Safety & Monitoring Interface is required.

BENEFITS PER SOLUTION	SolarEdge Power Optimizer with SolarEdge Inverter ✔	SolarEdge Power Optimizer with SolarEdge Safety & Monitoring Interface and a Non-SolarEdge Inverter	SolarEdge Power Optimizer with a Non-SolarEdge Inverter
Added Energy	✔	✔	✔
Safety	✔	✔	-
Monitoring	✔	✔	-
Multi-facet Design	✔	✔	✔
Long String Design		-	-

TECHNICAL DATA

	Power Optimizer connected to a SolarEdge Inverter	Power Optimizer connected to a Non-SolarEdge Inverter*	
INPUT			
Rated Input DC Power	300		W
Absolute Maximum Input Voltage (Voc)	55		Vdc
MPPT Operating Range	5 - 55		Vdc
Maximum Continuous Input Current (Isc)	10		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.8		%
Overvoltage Category	II		
OUTPUT DURING OPERATION			
Maximum Output Current	15	10	Adc
Operating Output Voltage	5 - 60	5 - Voc of connected PV module	Vdc
Maximum System Voltage	1000		Vdc
PV SYSTEM DESIGN			
Minimum String Length	8 (1ph system)	According to inverter design rules & PV module datasheet	
	16 (3ph system)		
Maximum String Length	25 (1ph system)		
	50 (3ph system)		
Maximum Power per String	5250 (1-ph system)		W
	11250 (3-ph system)		W
Parallel Strings of Different Lengths	Yes	No	
Parallel Strings of Different Orientations	Yes	Yes	
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1	1**	Vdc
STANDARD COMPLIANCE			
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3		
Safety	IEC62109-1 (class II safety), UL1741		
Material	UL-94 (5-VA), UV Resistant		
RoHS	Yes		
INSTALLATION SPECIFICATIONS			
Dimensions (WxLxH)	143 x 210 x 45 / 5.63 x 8.26 x 1.75		mm / in
Weight (excluding cables)	450 / 1.0		g / lb
Output PV Wire	0.95m / 3ft length; 6mm^2		
Input Connector	MC3 / MC4 / Tyco / H+S / Amphenol		
Output Connector	MC4 Compatible		
Operating Temperature Range	-40 - +65 / -40 - +150		˚C / ˚F
Protection Rating	IP65 / NEMA4		
Relative Humidity	0 - 100		%

* Available only if Safety & Monitoring Interface (SMI) is installed or if SafeDC™ is disabled during installation by a one-time operation using the SolarEdge Key.
** When SolarEdge Safety and Monitoring Interface (SMI) is turned off.

CE

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