



# SolarEdge Power Optimizer

Module Add-On with IndOP™ technology

OPI300-LV

POWER OPTIMIZERS



## PV power optimization at the module-level

- Independent optimization technology (IndOP™) - allows operation with any inverter and requires no additional interface hardware
- Up to 25% more energy
- Mitigates all types of modules mismatch-loss, from manufacturing tolerance to partial shading
- Superior efficiency (99.5%)
- Ideal for retrofitting existing installations



# SolarEdge Power Optimizer Module Add-On with IndOP™ technology OPI300-LV

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	✓	-	-

	Power Optimizer connected to a SolarEdge Inverter	Power Optimizer connected to a Non-SolarEdge Inverter**	
<b>INPUT</b>			
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		
<b>OUTPUT DURING OPERATION</b>			
Maximum Output Current	15	10	Adc
Operating Output Voltage	5 - 60	5 - Voc of connected PV module	Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)</b>			
Safety Output Voltage per Power Optimizer	1	1***	Vdc
<b>STANDARD COMPLIANCE</b>			
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		
<b>INSTALLATION SPECIFICATIONS</b>			
Maximum Allowed System Voltage	1000		Vdc
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
Input Connector	MC3 / MC4 / Tyco / H+S / Amphenol		
Output Wire Type	6mm <sup>2</sup> ; MC4		
Output Wire Length	1.2 / 3.9		m / ft
Operating Temperature Range	-40 - +65 / -40 - +150		°C / °F
Protection Rating	IP65 / NEMA4		
Relative Humidity	0 - 100		%

PV SYSTEM DESIGN	SOLAREEDGE SINGLE PHASE INVERTER	SOLAREEDGE THREE PHASE INVERTER	NON-SOLAREEDGE INVERTER**	
Minimum String Length (Power Optimizers)	8	16	According to inverter design rules & PV module datasheet	W
Maximum String Length (Power Optimizers)	25	50		
Maximum Power per String	5250	11250		
Parallel Strings of Different Lengths	Yes		No	
Parallel Strings of Different Orientations	Yes		Yes	

\* Rated STC power of the module. Module of up to +5% power tolerance allowed.

\*\* 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.

