



Power Optimizer

with IndOP™ technology

P370I

POWER OPTIMIZER



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%)
- Fast installation with a single bolt
- Ideal for retrofitting existing installations



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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	✓	—	—

P370I (for 60-cell & 72-cell PV modules)			
INPUT			
Rated Input DC Power ⁽¹⁾		370	W
Absolute Maximum Input Voltage (Voc at lowest temperature)		60	Vdc
MPPT Operating Range		8 - 60	Vdc
Maximum Continuous Input Current (Isc)	Pxxx-2 series	10	Adc
	Pxxx-5 series	11	Adc
Maximum Efficiency		99.5	%
Weighted Efficiency		98.6	%
Overvoltage Category		II	
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER)		Power Optimizer connected to a SolarEdge Inverter	Power Optimizer connected to a Non-SolarEdge Inverter ⁽²⁾
Maximum Output Current		15	Adc
Maximum Output Voltage		60	Vdc of connected PV module
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer		1	1 ⁽³⁾ Vdc
STANDARD COMPLIANCE			
EMC		FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3	
Safety		IEC62109-1 (class II safety), UL1741	
RoHS		Yes	
Fire Safety		VDE-AR-E 2100-712:2013-05	
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage		1000	Vdc
Dimensions (WxLxH)	Pxxx-2 series	141 x 212 x 40.5 / 5.55 x 8.34 x 1.59	mm / in
	Pxxx-5 series	128 x 152 x 27.5 / 5 x 5.97 x 1.08	mm / in
Weight (including cables)	Pxxx-2 series	950 / 2.1	g / lb
	Pxxx-5 series	655 / 1.5	g / lb
Input Connector		MC4 ⁽⁴⁾	
Output Connector		MC4	
Output Wire Length		1.2 / 3.9	m / ft
Operating Temperature Range		-40 - +85 / -40 - +185	°C / °F
Protection Rating	Pxxx-2 series	IP65 / NEMA4	
	Pxxx-5 series	IP68 / NEMA 6P	
Relative Humidity		0 - 100	%

⁽¹⁾ Rated STC power of the module. Module of up to +5% power tolerance allowed.

⁽²⁾ 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.

⁽³⁾ When SolarEdge Safety and Monitoring Interface (SMI) is turned off.

⁽⁴⁾ For other connector types please contact SolarEdge.

PV SYSTEM DESIGN	SOLAREEDGE SINGLE PHASE HD-WAVE	SOLAREEDGE SINGLE PHASE INVERTER	SOLAREEDGE THREE PHASE INVERTER	NON-SOLAREEDGE INVERTER ⁽²⁾
Minimum String Length (Power Optimizers)	8		16	According to inverter design rules & PV module datasheet, minimum 4 power optimizers per string
Maximum String Length (Power Optimizers)	25		50	
Maximum Power per String	5700	5250	11250	W
Parallel Strings of Different Lengths		Yes		No
Parallel Strings of Different Orientations			Yes	

