solaredge

Power Optimizer

with IndOP™ technology

P370I

25 Years Warranty — Power Optimizer · Power Optimizer · Power Optimizer · 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
Maximum Continuous Input Current (Isc) — 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	10	Adc
Maximum Output Voltage	60	Voc of connected PV module	Vdc

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
Dimensions (WxLxH) — 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
Weight (including cables) — 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	
Protection Rating — 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 SafeDCTM 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	SOLAREDGE SINGLE PHASE HD-WAVE	SOLAREDGE SINGLE PHASE INVERTER	SOLAREDGE THREE PHASE INVERTER	NON-SOLAREDGE 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			

CE