

solaredge P750 Power Optimizer Instructions

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solaredge P750 Power Optimizer



PV power optimization at the module level

The most cost-effective solution for commercial and large field installations

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Balance of System cost reduction; 50% less cables, fuses and combiner boxes, over 2x longer string lengths
 possible
- Fast installation with a single bolt
- · Advanced maintenance with module-level monitoring
- Support high input current, bifacial and high power modules

Power Optimizer Model (Typical Mod	P750						
ule Compatibility)	(for 1 x high power PV module)						
INPUT							

Rated Input DC Power(1)	750	W			
Connection Method	Single input				
Absolute Maximum Input Voltage (Vo c at lowest temperature)	60				
MPPT Operating Range	12.5 – 60				
Maximum Short Circuit Current per In put (Isc)	20				
Maximum Efficiency	99.5				
Weighted Efficiency	98.6	%			
Overvoltage Category	II				
OUTPUT DURING OPERATION (POW	ER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE ER)	INVERT			
Maximum Output Current	18	Adc			
Maximum Output Voltage	80	Vdc			
OUTPUT DURING STANDBY (POWER	OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTE OLAREDGE INVERTER OFF)	R OR S			
Safety Output Voltage per Power Opti mizer	1 ± 0.1	Vdc			
	STANDARD COMPLIANCE	'			
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3				
Safety	IEC62109-1 (class II safety)				
RoHS	Yes				
Fire Safety	VDE-AR-E 2100-712:2013-05				
I	NSTALLATION SPECIFICATIONS				
Compatible SolarEdge Inverters	Three phase inverters SE16K & larger				
Maximum Allowed System Voltage	1000				
Dimensions (W x L x H)	129 x 169 x 59	mm			
Weight	1340	gr			
Input Connector	MC4(2)				
Input Wire Length	1.4	m			
Output Connector	MC4				
Output Wire Length	Portrait Orientation: 1.4				
Operating Temperature Range(3)	-40 to +85				
Protection Rating	IP68 / NEMA6P				
Relative Humidity	0 – 100	%			

- 1. 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
- 2. For other connector types please contact SolarEdge
- For ambient temperature above +70°C / +158°F power de-rating is applied. Refer to Power Optimizers
 Temperature De-Rating Technical Note for more details

PV System Design Using a So larEdge Inverter(4)(5)(6)		230/400V Grid SE1 6K, SE17 K	230/400V Grid SE2 5K	230/400V Grid SE2 7.6K*	230/400V Grid SE3 0K*	230/400V Grid SE3 3.3K*	277/480V Grid SE4 0K*	
Compatible Power Optimizers		P750						
Minimum String Le ngth Maximum String Le ngth	Power Optimizers	14	14	14	15	14	14	
	PV Modules	14	14	14	15	14	14	
	Power Optimizers	30	30	30	30	30	30	
	PV Modules	30	30	30	30	30	30	
Maximum Continuous Power per String		13500	13500	13950	15300	13500	15300	w
Maximum Allowed Connected Power per String(6) (Permitte d only when the difference in c onnected power between strin gs is 2000W or less)		1 string – 15750	1 string – 15750	1 string – 15750	1 string – 17550	2 strings or less - 15750	2 strings or less – 17550	W
		2 strings or more - 18500	2 strings or more - 18500	2 strings or more - 18500	2 strings or more - 20300	3 strings or more - 18500	3 strings or more - 20300	
Parallel Strings of Different Le ngths or Orientations		Yes						

The same rules apply for Synergy units of equivalent power ratings, that are part of the modular Synergy Technology inverter

- 4. P750 can be mixed in one string only with P750
- 5. For SE16K and above, the minimum STC DC connected power should be 11KW
- 6. To connect more STC power per string, design your project using SolarEdge Designer
- 7. It is not allowed to mix S-series and P-series power optimizers in new installations

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Documents / Resources



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Manuals+,