



SolarEdge Power Optimizer

Module Add-On for Commercial Installations

OP600-96V

POWER OPTIMIZERS



PV power optimization at the module-level

The most cost effective solution for commercial and large field installations

- Up to 25% more energy
- Superior efficiency (99.5%)
- Balance of System costs reduction
- Next generation maintenance with module level monitoring
- Module-level voltage shutdown for installer and firefighter safety
- Use with 2 x 60-cell PV modules connected in series
- Compatible with SolarEdge Inverters SE16K & larger



SolarEdge Power Optimizer Module Add-On for Commercial Installations OP600-96V

OP600-96V		
INPUT		
Rated Input DC Power*	600	W
Absolute Maximum Input Voltage (Voc)	96	Vdc
MPPT Operating Range	12.5 - 80	Vdc
Maximum Continuous Input Current (Isc)	10	Adc
Maximum Efficiency	99.5	%
Weighted Efficiency	98.7	%
Overvoltage Category	II	
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER)		
Maximum Output Current	15	Adc
Operating Output Voltage	10 - 85	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)		
Safety Output Voltage per Power Optimizer	1	Vdc
STANDARD COMPLIANCE		
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3	
Safety	IEC62109-1 (class II safety)	
Material	UL-94 (5-VA), UV Resistant	
RoHS	Yes	
INSTALLATION SPECIFICATIONS		
Maximum Allowed System Voltage	1000	Vdc
Dimensions (W x L x H)	143 x 210 x 45 / 5.63 x 8.26 x 1.75	mm / in
Weight	450 / 1.0	gr / lb
Input Connector	MC4 / Tyco / H+S / Amphenol	
Output Wire Type	6mm ² ; MC4	
Operating Temperature Range	-40 - +65 / -40 - +150	°C / °F
Protection Rating	IP65 / NEMA4	
Relative Humidity	0 - 100	%

* Rated combined STC power of 2 modules connected in series. Module of up to +5% power tolerance

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER**		THREE PHASE
Compatible SolarEdge Inverters		SE16K and larger
Minimum String Length	Power optimizers	13
	PV modules	26
Maximum String Length	Power optimizers	30
	PV modules	60
Maximum Power per String		11250 W
Parallel Strings of Different Lengths or Orientations		Yes

** Installation of OP600-96V with OP250/OP300/OP400 in the same string is not allowed.

CONFIGURATIONS	FOR PORTRAIT ORIENTATION P/N OP600-96V-ZZZZZ-4U)	FOR LANDSCAPE ORIENTATION (P/N OP600-96V-ZZZZZ-4UL)
Output Wire Length	1.2m / 4ft	1.8m / 5.9ft

