
Power Optimizer Embedded for North America

OPJ300-LV



POWER OPTIMIZER

PV power optimization at the module-level

- // Simplifies system design by eliminating power optimizer selection process
- // High efficiency with module-level MPPT, for maximized system energy production and revenue, and fast project ROI
- // Superior efficiency (99.5%)
- // Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- // Module-level voltage shutdown for installer and firefighter safety
- // A certified junction box (US, IEC) incorporating the field proven SolarEdge power optimizer
- // Independent optimization technology (IndOP™) - operation with any inverter and no additional hardware or addition of SolarEdge inverter for added benefits
- // Unique Pass-Thru connector for easy module flashing and field replacement

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POWER OPTIMIZER CONNECTED TO A SOLAREEDGE INVERTER		POWER OPTIMIZER CONNECTED TO A NON-SOLAREEDGE INVERTER ⁽¹⁾	
INPUT			
Rated Input DC Power		330	W
Absolute Maximum Input Voltage (Voc)		55	Vdc
MPPT Operating Range		5 - 55	Vdc
Maximum Short Circuit Current (Isc) of connected PV Module		10	Adc
Maximum DC Input Current		12.5	Adc
Maximum Efficiency		99.5	%
Weighted Efficiency		98.9	%
Overvoltage Category		II	
OUTPUT DURING OPERATION			
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 ⁽²⁾	Vdc
INDARD COMPLIANCE			
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3		
Safety	IEC62109-1 (class II safety, TUV-SUD), UL1741 (TUV-Rheinland & CSA)		
PV Junction Box	EN50548 (TUV-SUD), UL3730 (TUV-Rheinland & CSA)		
Material	UL94 V-0, UV Resistant		
RoHS	Yes		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000V		Vdc
Dimensions (W x L x H)	208x155x29.5 / 8.2x6.1x1.16		mm / in
Weight (excluding cables)	700 / 1.5		gr / lb
Output Wire Type	Double insulated; 6 mm ² ; MC4 ⁽³⁾		
Output Wire Length	1/3.38 , 1.2/3.93		m / ft
Operating Temperature Range	-40 - +85 / -40 - +185		°C / °F
Protection Rating	IP67 / NEMA6		
Relative Humidity	0 - 100		%

(1) 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.

(2) When SolarEdge Safety and Monitoring Interface (SMI) is installed and off. Note - OPJ power optimizer warranty shall not exceed the maximum of (1) the module product warranty and (2) the module power warranty periods provided by the applicable module manufacturer.

(3) For T4 please order OPJ300-LV-P1.

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER ⁽⁴⁾	SINGLE PHASE	THREE PHASE 208V	THREE PHASE 480V	
Minimum String Length (Power Optimizers)	8	10	18	
Maximum String Length (Power Optimizers)	25	25	50	
Maximum Power per St	5250	6000	12750	W
Parallel Strings of Different Lengths or Orientations	Yes			