Power Optimizer Zep Compatible™

Module Add-On For North America

P320-ZEP, P400-ZEP



POWEROPTIMIZER

Compatible with Zep Groove framed modules

- Specifically designed to work with SolarEdge inverters
- Certified Zep CompatibleTM bracket
- Attaches to module frame without screws reduces on-roof labor and mounting costs
- Power optimizer equipment grounded through the bracket
- 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
- Flexible system design for maximum space utilization
- Next generation maintenance with modulelevel monitoring
- Compliant with arc fault protection and rapid shutdown NEC requirements (when installed as part of the SolarEdge system)
- Module-level voltage shutdown for installer and firefighter safety



✓ Power Optimizer - Zep Compatible™ Module Add-On For North America

P320-ZEP, P400-ZEP

Optimizer model (typical module compatibility)	P320-ZEP (for 60-cell modules) P400-ZEP (for 72 & 96-composition) modules)		
INPUT			
Rated Input DC power ⁽¹⁾	320	400	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	80	Vdc
MPPT Operating Range	8 - 48	8 - 80	Vdc
Maximum Short Circuit Current (Isc)	11 10.1		Adc
Maximum DC Input Current	13.75 12.63		Adc
Maximum Efficiency	99.	5	%
Weighted Efficiency	98.	8	%
Overvoltage Category	П		
OUTPUT DURING OPERATION (POWER OPTI	MIZER CONNECTED TO OPERATING	G INVERTER)	
Maximum Output Current	15	i	Adc
Maximum Output Voltage	60)	Vdc
OUTPUT DURING STANDBY (POWER OPTIM	ZER DISCONNECTED FROM INVER	TER OR INVERTER OFF)	
Safety Output Voltage per Power Optimizer	1 ± (0.1	Vdc
STANDARD COMPLIANCE			
EMC	FCC Part15 Class B, IEC61	1000-6-2, IEC61000-6-3	
Safety	IEC62109-1 (class	II safety), UL1741	
RoHS	Ye:	s	
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	100	10	Vdc
Input Connector	MC ²	4(2)	
Output Connector	Double Insul	ated; MC4	
Output Wire Length	0.95 / 3.0	1.2 / 3.9	m / ft
Operating Temperature Range	-40 - +85 /	°C / °F	
Protection Rating	IP68 / NEMA 6P		
Relative Humidity	0 - 1	00	%

^{*} These specifications apply to power optimizers with part number Pxxx-5NM4MTx
 Rated STC power of the module. Module of up to +5% power tolerance allowed.
 Other input connector types available upon request; contact SolarEdge for details.

PV System Design Using a Solaredge Inverter(3)	Single Phase HD-Wave	Single phase	Three phase 208v	Three phase 480v	
Minimum String Length (Power Optimizers)	8		10	18	
Maximum String Length (Power Optimizers)	25		25	50 ⁽⁴⁾	
Maximum Power per String	5700 (6000 with SE7600H-US)	5250	6000	12750	W
Parallel Strings of Different Lengths or Orientations	Yes				

⁽a) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf.
(b) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.