

40 Series One Third Cell Full Black Module

390 - 415 w

PeX Series: SNX-E40HP

21.33% Maximum Efficiency O~+5w Positive Power Tolerance **20years** Product Warranty



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HIGHER VALUE

¤ Longer Warranty terms and lower power degradation ¤ Lower LCOE for shorter payback period

HIGHER PERFORMANCE

 ${\tt x}$ Module Power reaches up to 415W by multi-busbar cell design

- ¤ Lower resistance performance by One Third cell structure
- ¤ Lower LID by lower string current

MORE RELIABLE

¤ Excellent anti-PID performance

- ¤ Lower hot spot risks
- ¤ Lower Pmax temperature coefficient
- ¤ Mechanical loading 5400Pa snow load and 2400Pa wind load

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Sonnex PEX Series Module Performance Warranty

🕞 Warranty

20 years product workmanship warranty. 30 years linear power output warranty. The power degradation for the first year will be less than 2%. From the 2nd year and onwards, the annual degradation will be less than 0.55%. Guaranteed performance ratio of 82.05% after 30 years.

390 - 415W

HALF-CELL MODULE 40 Series SNX-E40HP

Electrical Characteristics at Standard Test Conditions(STC)						
Module Type: SNX-E40HP-***M	390	395	400	410	415	
Maximum Power-Pm [W]	390	395	400	410	415	
Open Circuit Voltage-Voc [V]	40.80	41.00	41.20	41.40	41.60	
Short Circuit Current-Isc [A]	12.14	12.21	12.28	12.34	12.41	
Maximum Power Voltage-Vm [V]	33.80	34.00	34.20	34.40	34.60	
Maximum Power Current-Im [A]	11.54	11.62	11.70	11.77	11.85	
Module Efficiency-ŋ [%]	20.29	20.55	20.81	21.06	21.33	
Electrical Characteristics at NMOT						
Maximum Power-Pm [W]	291	294	298	302	306	
Open Circuit Voltage-Voc [V]	38.03	38.21	38.39	38.58	38.89	
Short Circuit Current-Isc [A]	9.81	9.86	9.92	9.97	10.01	
Maximum Power Voltage-Vm [V]	31.40	31.60	31.81	31.98	32.31	
Maximum Power Current-Im [A]	9,26	9,31	9,37	9,43	9,47	

Note: 1. Standard Test Conditions [STC]: Irradiance 1000 W/m²; AM 1.5; Ambient temperature 25°C ;

- 2.Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s; ambient temperature 20°C.
- 3.Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

Mechanical Characteristics

Dimensions	1754 ×1096×30 mm
Weight	21.2kg
Front Glass	AR coating tempered glass, 3.2mm
Frame	Anodized aluminum alloy
Cells	Mono-crystalline solar cell 210mm*70mm
Cell Orientation	120 (5×24)
Junction Box	IP68
Cable/Connectors	4mm² / MC4 or EVO2

Temperature Characteristics 45 °C (±2°C) NMOT -0.25% /°C Temperature Coefficient of Voc Temperature Coefficient of Isc +0.04% /°C Temperature Coefficient of Pm -0.340% /°C **Maximum Ratings** Maximum System Voltage [V] DC 1000/1500(IEC) 20 Series Fuse Rating [A] 5,400 Maximum Surface Load Capacity [Pa] Operating Temperature [°C] - 45 to + 85

Maximum diameter of 25 mm with impact speed of 23 m·s⁻¹

Other Characteristics

Withstanding Hail

Packaging 36 pcs/pallet; 936 pcs/40' HQ container

I-V curve



Declaration: Along with the technical improvement and product update, deviation between the technical parameter and Sonnex future products might occur. Specifications included in this datasheet are subject to change without prior notice. Sonnex reserves the right of final interpretation.

Drawing









