

54 Series HALF-CELL MODULE

390 - 410 w

PeX Series: SNX-D54HP

20.97%

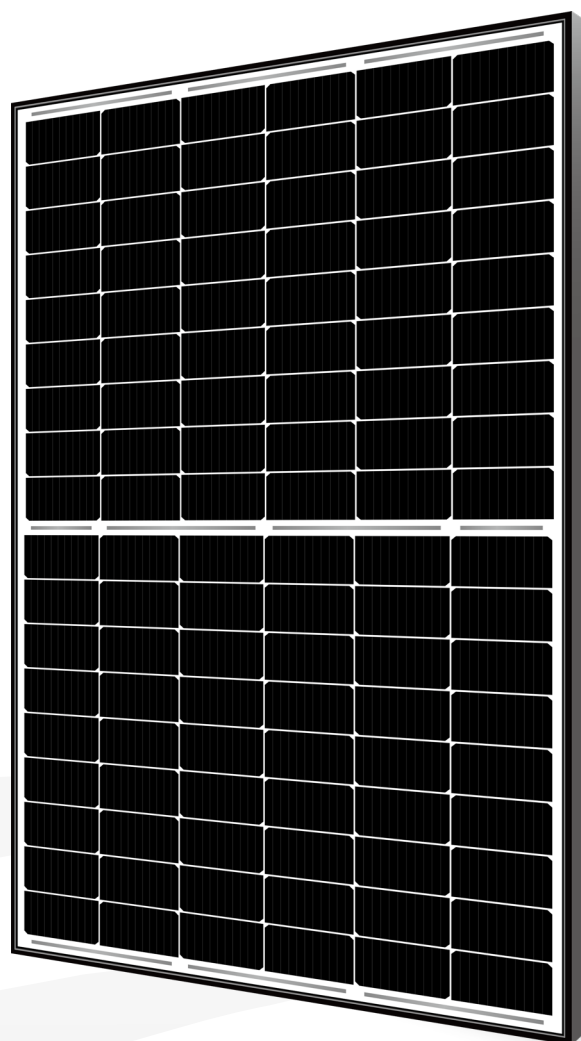
Maximum Efficiency

0~+5w

Positive Power Tolerance

20 years

Product Warranty



HIGHER VALUE

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

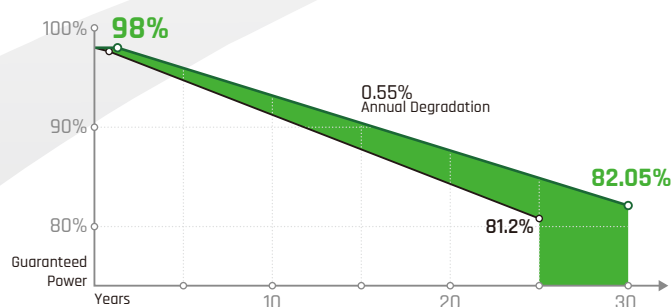


HIGHER PERFORMANCE

- Module Power reaches up to 410W by multi-busbar cell design
- Lower resistance performance by half-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



Sonnex Half-Cell Module Performance Warranty

Warranty

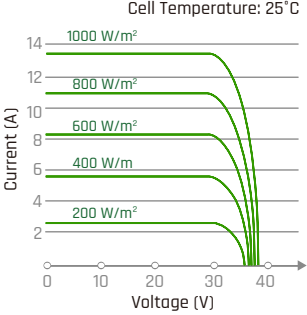
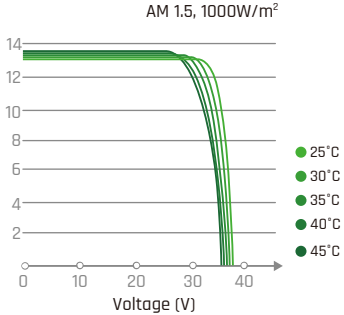
20 years product workmanship warranty. 30 years linear power output warranty. The power degradation for the first year will be less than 2%. From the 2nd year and onwards, the annual degradation will be less than 0.55%. Guaranteed performance ratio of 82.05% after 30 years.

Sonnex Energie GmbH

Add: Böttgerstraße 12, 20148 Hamburg, Germany
www.sonnexenergie.com info@sonnexenergie.de

390 - 410W

HALF-CELL MODULE 54 Series
SNX-D54HP

Electrical Characteristics at Standard Test Conditions(STC)						Temperature Characteristics	
Module Type: SNX-D54HP-***M	390	395	400	405	410	NMOT	45 °C (±2°C)
Maximum Power-Pm [W]	390	395	400	405	410	Temperature Coefficient of Voc	-0.2% /°C
Open Circuit Voltage-Voc [V]	36.69	36.93	37.18	37.42	37.66	Temperature Coefficient of Isc	0.05% /°C
Short Circuit Current-Isc [A]	13.42	13.48	13.54	13.60	13.66	Temperature Coefficient of Pm	-0.350% /°C
Maximum Power Voltage-Vm [V]	30.79	31.03	31.28	31.52	31.76	Maximum Ratings	
Maximum Power Current-Im [A]	12.67	12.73	12.79	12.85	12.91	Maximum System Voltage [V]	DC 1500/1000(IEC)
Module Efficiency-η [%]	19.94	20.20	20.46	20.71	20.97	Series Fuse Rating [A]	25
Electrical Characteristics at NMOT						Maximum Surface Load Capacity [Pa]	5,400
Maximum Power-Pm [W]	295	299	303	307	310	Temperature Range [°C]	- 40 to + 85
Open Circuit Voltage-Voc [V]	34.13	34.35	34.58	34.81	35.03	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s ⁻¹
Short Circuit Current-Isc [A]	10.98	11.03	11.08	11.13	11.18	Other Characteristics	
Maximum Power Voltage-Vm [V]	28.45	28.70	28.94	28.19	29.36	Packaging	36 pcs/pallet; 936 pcs/40' HQ container
Maximum Power Current-Im [A]	10.37	10.42	10.47	10.52	10.56	I-V curve	
Note: 1. Standard Test Conditions [STC]: Irradiance 1000 W/m ² ; AM 1.5; Ambient temperature 25°C ; 2.Nominal Module Operating Temperature (NMOT): Irradiance 800W/m ² ; 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%.						Cell Temperature: 25°C  AM 1.5, 1000W/m² 	
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.							

