



395 - 415 w

PeX Series: SNX-D54HP(S)

21.25%

Maximum Efficiency

0~+5w

Positive Power Tolerance

20years

Product Warranty





ISO9001:2015: Quality management systems ISO14001:2015: Environmental management





- x Longer Warranty terms and lower power degradation
- **x** Lower LCOE for shorter payback period
- ¤ Up to 20% more energy production
- ¤ Higher optimizing efficiency with integrated cell-string optimizer
- ¤ Embeded Taylor's electronics in the panel saves installation cost

M HIGHER PERFORMANCE

- **¤** Ultimate look of black modules
- ¤ up to 415W by multi-busbar cell design
- **x** Lower resistance performance by half-cell structure
- x Lower LID by lower string current



IEC61215(2016), IEC61730(2016)



100% 98% 0.55% Annual Degradation 90% 82.05% 80% 81.2% Power

Sonnex Half-Cell Module Performance Warranty

MORE RELIABLE

- ¤ Cell-string monitoring offers real-time diagnosis on system
- ¤ Fire emergency rapid shut down (RSD) is available
- ¤ Excellent anti-PID performance
- **¤** Hot spot risks prevention
- multiple mechanical loading 5400Pa snow load and 2400Pa wind load



Sonnex Energie GmbH

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- 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.

395 - 415W

HALF-CELL MODULE 54 Smart Series SNX-D54HP(S)

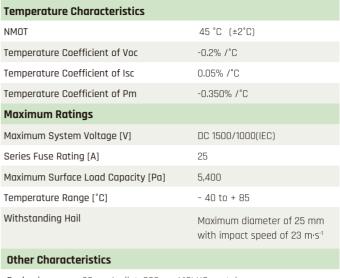
Electrical Characteristics at Standard Test	Conditi	ons(STC)		
Module Type: SNX-D54HP-***MS	395	400	405	410	415
Maximum Power-Pm [W]	395	400	405	410	415
Open Circuit Voltage-Voc [V]	36.93	37.18	37.42	37.66	37.90
Short Circuit Current-Isc [A]	13.48	13.54	13.60	13.66	13.72
Maximum Power Voltage-Vm [V]	31.03	31.28	31.52	31.76	32.01
Maximum Power Current-Im [A]	12.73	12.79	12.85	12.91	12.97
Module Efficiency-η [%]	20.23	20.48	20.74	21.00	21.25
Electrical Characteristics at NMOT					
Maximum Power-Pm [W]	299	303	307	310	314
Open Circuit Voltage-Voc [V]	34.35	34.58	34.81	35.03	35.03
Short Circuit Current-Isc [A]	11.03	11.08	11.13	11.18	11.23
Maximum Power Voltage-Vm [V]	28.70	28.94	28.19	29.36	29.62
Maximum Power Current-Im [A]	10.42	10.47	10.52	10.56	10.60

Note: 1. Standard Test Conditions [STC]: Irradiance 1000 W/m 2 ; AM 1.5; Ambient temperature 25 $^{\circ}$ 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%.

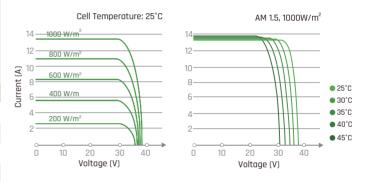
Mechanical Characteristics

Dimensions	1722×1134×30 mm
Weight	20.2Kg
Front Glass	AR coating tempered glass, 3.2mm
Frame	Anodized aluminum alloy
Cells	Mono-crystalline solar cell 182mm*91mm
Cell Orientation	108 (6×18)
Junction Box	IP65/IP67
Cable/Connectors	4mm² / MC4 or EVO2



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

