

taylor.

420-440W Full Black
SNX-D54HN(S)

TOPCon Cell technology



Produced by

ENERGIE
Sannex

Integrated cell string optimizer



More power

Up to 20% more energy compared to normal solar panels.



Advanced insight

Cell-level data provides real-time diagnostics for the system owner.



Safer

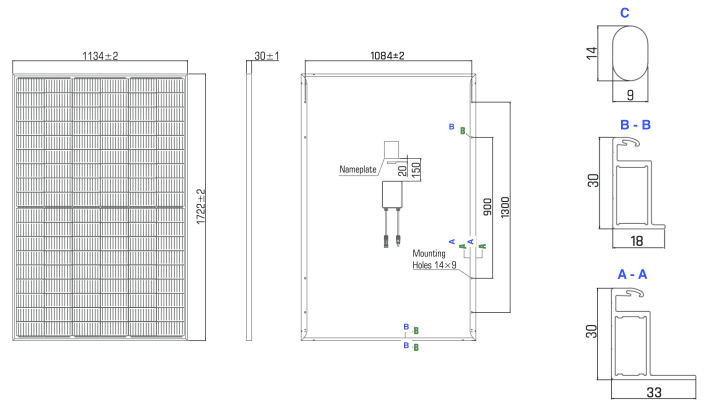
Temperature and maintenance shutdown lowers (fire) risk.





Mechanical specifications

Dimensions	1722±2
Weight	21Kg
Front Glass	AR coating tempered glass, 3.2mm
Frame	Anodized aluminium alloy
Cells	TOPCon cell 182mm*91mm
Cell Orientation	108 (6x18)
Junction Box	Taylor optimizer, IP67
Cable/Connectors	4mm ² / Stäubli MC4 / 120cm
Packaging	36 pcs/pallet; 936 pcs/40' HQ container



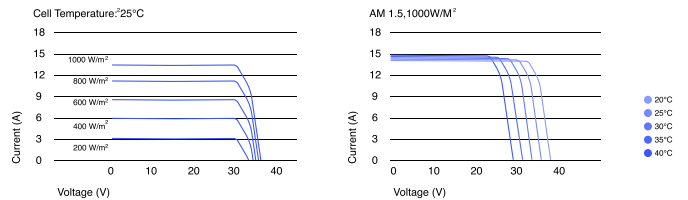
Electrical specifications

Module Type: SNX-D54HN-***MS		420		425		430		435		440	
		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Performance (Power Tolerance -0 W/+5 W)	[W]										
Maximum Power-Pm	[W]	420	319	425	323	430	327	435	331	440	335
Open Circuit Voltage-Voc	[V]	38.1	36.6	38.2	36.7	38.3	36.8	38.4	36.9	38.6	37.1
Short Circuit Current-Isc	[A]	14.07	11.33	14.15	11.40	14.23	11.47	14.31	11.53	14.39	11.60
Maximum Power Voltage-Vm	[V]	31.6	30.3	31.7	30.4	31.9	30.6	32.0	30.7	32.2	30.9
Maximum Power Current-Im	[A]	13.30	10.57	13.42	10.63	13.50	10.69	13.60	10.78	13.68	10.84
Module Efficiency	[%]	21.5		21.8		22.0		22.3		22.5	

Temperature Coefficients

NMOT	43 °C (±2°C)
Temperature Coefficient of Voc	-0.250% /°C
Temperature Coefficient of Isc	0.046% /°C
Temperature Coefficient of Pm	-0.310% /°C

I-V Curve



Properties for system design

Maximum System Voltage [V]	DC 1000(IEC)
Maximum Series Fuse Rating [A]	25 (Comply with Taylor installation manual)
Maximum Surface Load Capacity [Pa]	5,400
Temperature Range [°C]	- 40 to + 85
Withstanding Hall	Maximum diameter of 25 mm with impact speed of 23 m/s ⁻¹

Notice

All data and specifications are preliminary and subject to change without notice.

Warranty

Module Warranty by Sonnex Energie GmbH

Product Warranty [y]	20
Power Warranty [y]	30
Power after 1 year	< 1%
Power after 2nd year	< 0.4%
Guaranteed Performance Ratio after 30 years	87.4%

Cell String Optimizer Warranty by Taylor Technologies

Product Warranty [y]	25
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