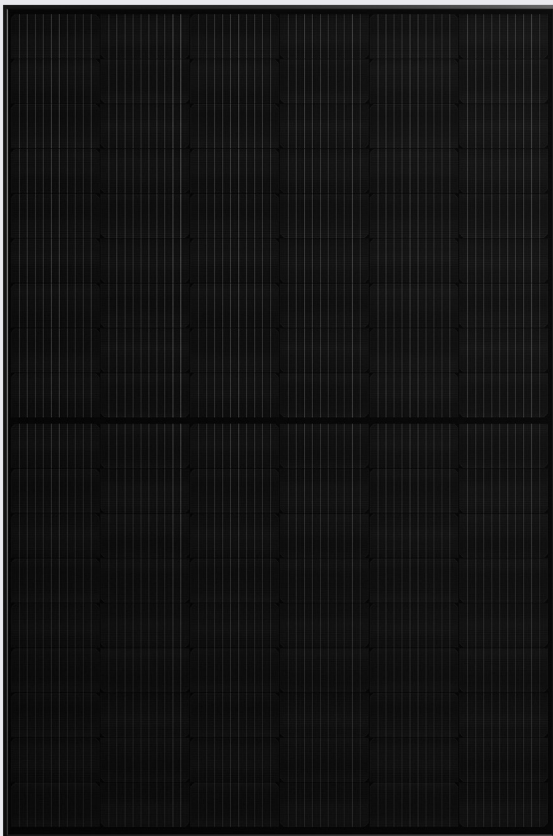


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PRODUCED BY
ENERGIE
Sunnex



TOPCon Full Black
435-455W

SNX-D54HN(SR1)

Integrated Taylor Nano Optimizer.

Cell-string level data for real-time performance insights.

Temperature and maintenance shutdown lowers (fire) risk.

30 years linear power output warranty.

taylor.solar

Datasheet
SNX-D54HN(SR1)



Electrical characteristics 123

Module type: SNX-D54HN-***MS(R1)	435		440		445		450		455	
Performance (power tolerance 0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power-Pm (W)	435	331	440	335	445	339	450	343	455	348
Open circuit voltage - Voc (V)	39.16	36.9	39.38	37.1	39.59	37.3	39.78	37.5	39.98	37.7
Short circuit current - Isc (A)	13.80	11.53	13.86	11.60	13.93	11.67	14.00	11.73	14.07	11.80
Maximum power voltage - Vm (V)	32.59	30.7	32.81	30.9	33.02	31.1	33.21	31.3	33.41	31.5
Maximum power current - Im (A)	13.35	10.78	13.41	10.84	13.48	10.90	13.55	10.96	13.62	11.05
Module efficiency (%)	21.8		22.0		22.3		22.5		22.8	

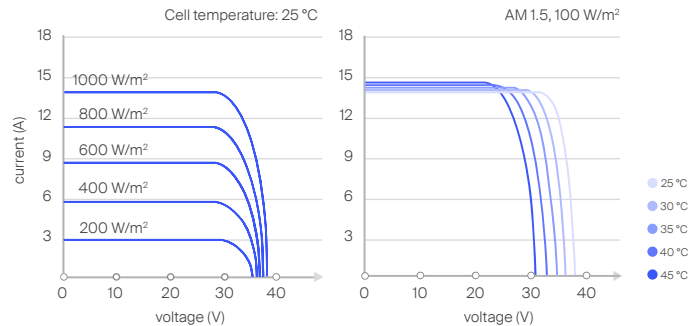
Temperature characteristics

NMOT	42 °C (± 2 °C)
Temperature coefficient of Voc	-0.25% / °C
Temperature coefficient of Isc	+0.045% / °C
Temperature coefficient of Pm	-0.29% / °C

Maximum ratings

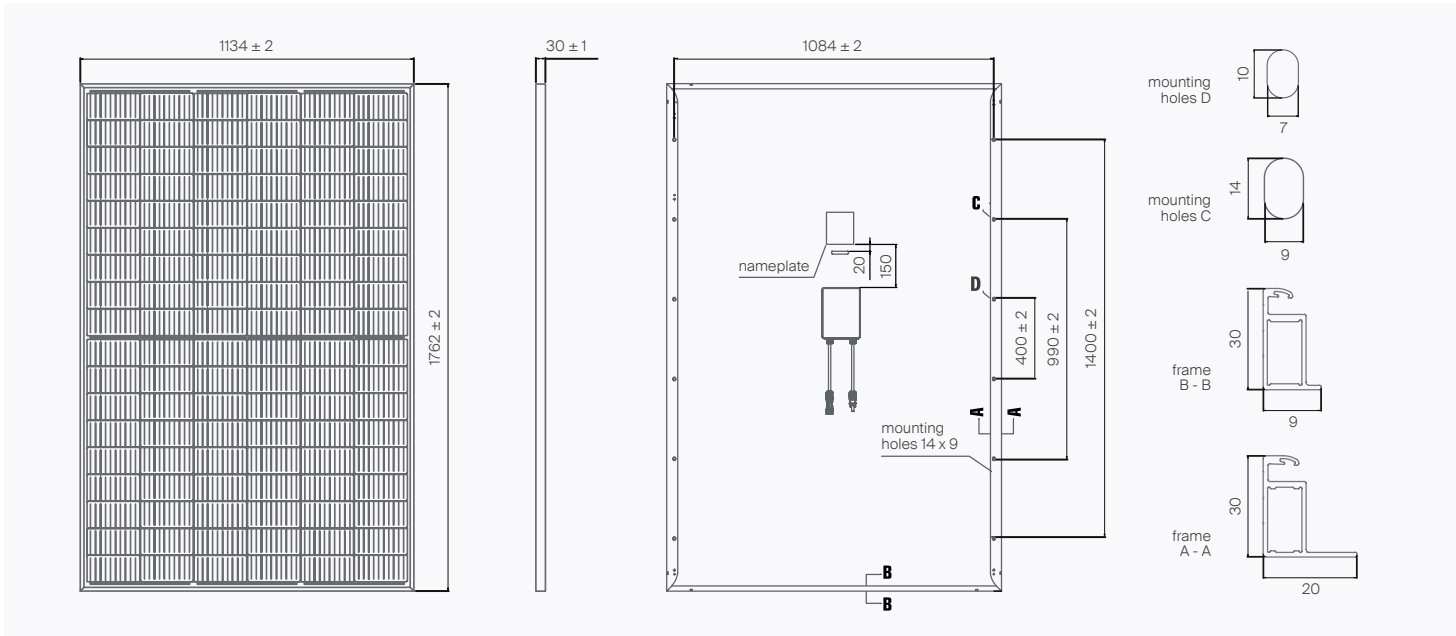
Maximum system voltage (V)	DC 1500 / 1000 (IEC)
Series fuse rating (A)	25 (comply with Taylor installation manual)
Maximum surface load capacity (Pa)	5,400
Temperature range (°C)	- 45 to + 85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

I-V curve



Mechanical characteristics

Dimensions (H x W x D) (mm)	1762 x 1134 x 30	Cell orientation	108 (6 x 18)
Weight (kg)	21.5	Junction Box	Taylor optimizer, IP67
Front glass	AR coating tempered glass 3.2 mm	Cable / Connectors	4 mm² / Stäubli MC4 or EVO2
Frame	Anodized aluminum alloy	Packaging	36pcs/pallet; 936pcs/40' HQ container
Cells	TOPCon cell 182 x 91 mm		



Warranty

PV module warranty by Sonnex Energie GmbH	
Product warranty (y)	20
Power warranty (y)	30
Power degradation 1 st year	< 1 %
Annual power degradation 2 nd year and onwards	< 0.4 %
Guaranteed performance ratio	87.4 % after 30 years
Cell string optimizer warranty by Taylor Technologies B.V.	
Product warranty (y)	25

Other characteristics

IEC61215(2016), IEC61730(2016), ISO9001:2015, ISO14001:2015
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%.

taylor.gateway is required for this solar panel. Please install conform taylor. manuals.