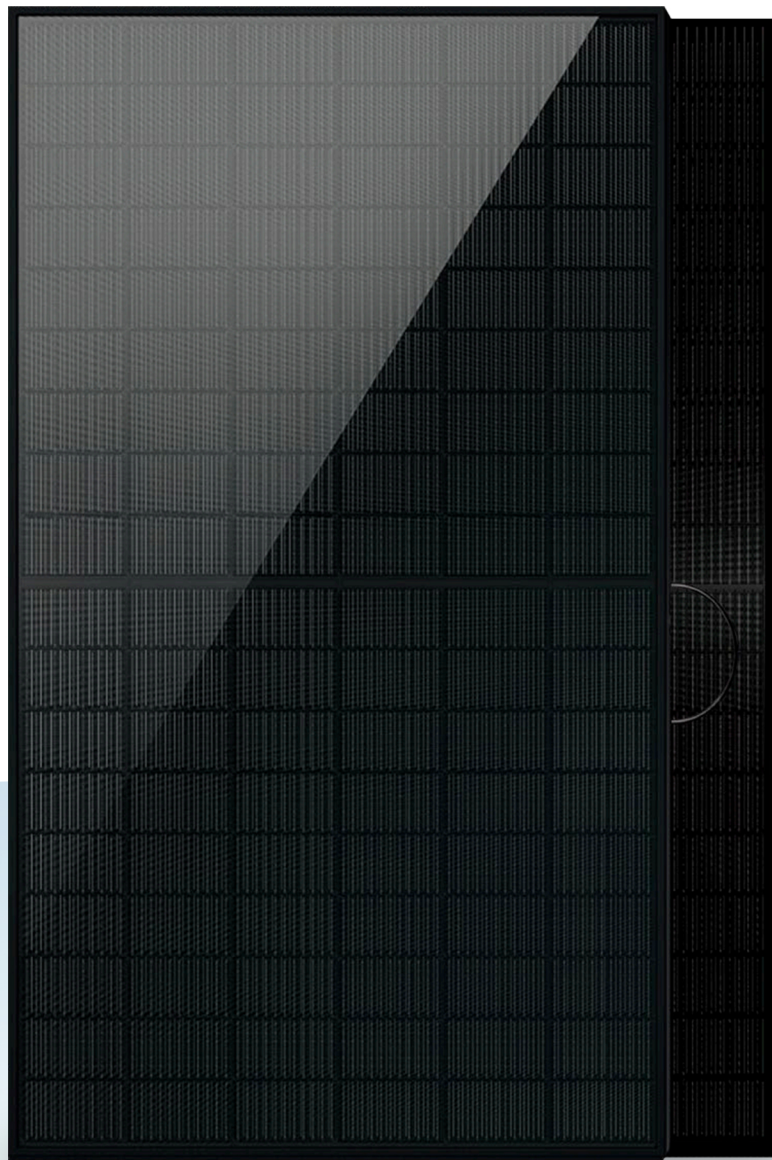


Module

N-TOPCon

425–435W (Full Black)



TOP PV TECH,
DRIVING ONWARD FOR GREEN ENERGY

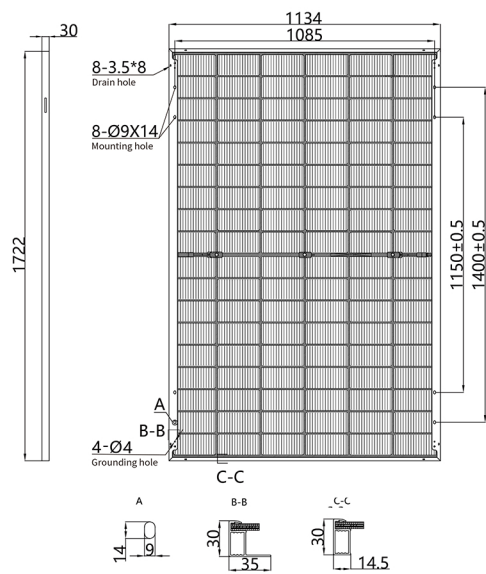
Module Specification

N-TOPCon-425-435W (Full Black)

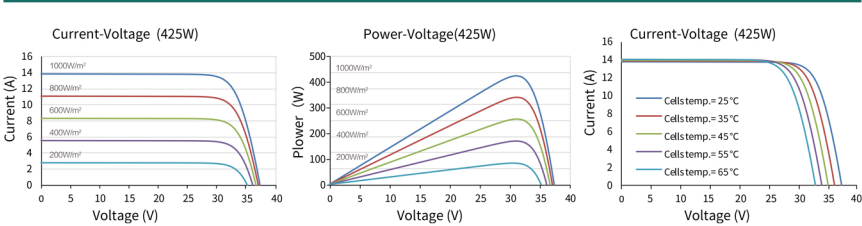
Mechanical parameters

Outer dimensions (LxWxH)	1722 x 1134 x 30 mm
Cell	N type mono-crystalline
Number of cells	108 (6*24)
Frame Type	Aluminum, black anodized
Glass thickness	2.0+2.0 mm
Cable length (including connector)	Portrait: (+)300 mm,(-)300 mm; Customized length
Cable cross-sectional area (IEC)	4 mm ² / 12 AWG
①Maximum test mechanical load	5400Pa (front) /2400Pa(rear)
Connector type (IEC)	QC Solar: QC4.10-cds Sunter: PV-ZH202B XTong: PV-XT101.1, PV-XT101.2 Stäubli: PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR or PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy
Module weight	23.7 kg
Packaging unit	36 pcs / box (Subject to sales contract)
Weight of packing unit	896 kg / box
Modules per 40' HQ container	936 pcs

①Please refer to the installation manual or contact us to confirm.
The maximum test mechanical load = 1.5× maximum design mechanical load.



Performance curve



Temperature coefficient

-0.29%/°C Temperature coefficient (Pmpp)	+0.043%/°C Temperature coefficient (Isc)
-0.24%/°C Temperature coefficient (Voc)	42±2°C Nominal module operating temperature (NMOT)

Electrical performance parameters

*STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5			
Rated output (Pmpp/Wp)	425	430	435
Rated voltage (Vmpp/V)	32.42	32.63	32.84
Rated current (Impp/A)	13.11	13.18	13.25
Open circuit voltage (Voc/V)	38.60	38.76	38.92
Short-circuit current (Isc/A)	13.83	13.90	13.97
Module efficiency	21.8%	22.0%	22.3%
Power sorting tolerance	0~+5W		

BNPI: Ef=1000W/m², Er=135W/m², AM=1.5, Tc=25°C Bifaciality Coefficients: φPmax: 80±10%, φVoc: 100±3%, φIsc: 80±10%			
Rated output (Pmpp/Wp)	471	476	482
Rated voltage (Vmpp/V)	32.42	32.63	32.84
Rated current (Impp/A)	14.53	14.60	14.68
Open circuit voltage (Voc/V)	38.60	38.76	38.92
Short-circuit current (Isc/A)	15.32	15.40	15.48

NMOT: Irradiance 800W/m², Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s			
Rated output (Pmpp/Wp)	319.9	323.8	327.4
Rated voltage (Vmpp/V)	30.44	30.63	30.83
Rated current (Impp/A)	10.51	10.57	10.62
Open circuit voltage (Voc/V)	36.67	36.82	36.97
Short-circuit current (Isc/A)	11.09	11.14	11.20