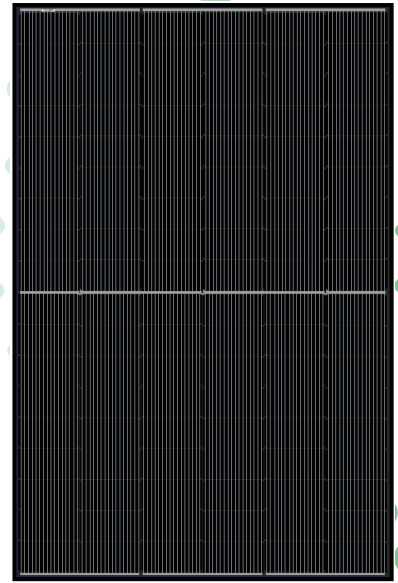


NESE 435-54TH-M10

16BB HALF-CELL N-TYPE TOPCON BLACK MONOCRYSTALLINE PV MOUDLE



KEY FEATURES



High efficiency TOPCon

A high efficiency 182 (M10) N-Type TOPCon solar cell with 16 busbars technology to ensure the efficiency of the solar module up to 22.28% and stable operation.



0-5w tolerance

0- 5W positive power tolerance.



Wind/Snow load

Wind load 2400 pa, snow load 5400 pa.



Pid free

Excellent Anti-PID performance, minimized the degradation of power.



Excellent performance with weak light

More power output with a weak light condition-through advanced glass and solar cells.

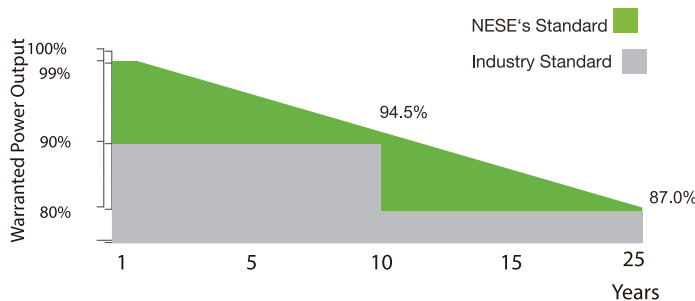


Resistance of extreme environment conditions

High salt mist and ammonia resistance certified by TUV.

LINEAR PERFORMANCE WARRANTY

12 YEARS PRODUCT WARRANTY. 25 YEARS LINEAR POWER WARRANTY.



MANAGEMENT SYSTEM CERTIFICATES

ISO 9001/ISO 14001/ISO 45001

SA 8000/ISO 50001/ISO 37001

PRODUCT CERTIFICATES

IEC 61215/IEC 61730:VDE/CE/CEC AU

UL 61730: CSA

IEC 61701/IEC 62716/IEC 62804

ENVIRONMENT CERTIFICATES

ISO 14064/ISO 14067

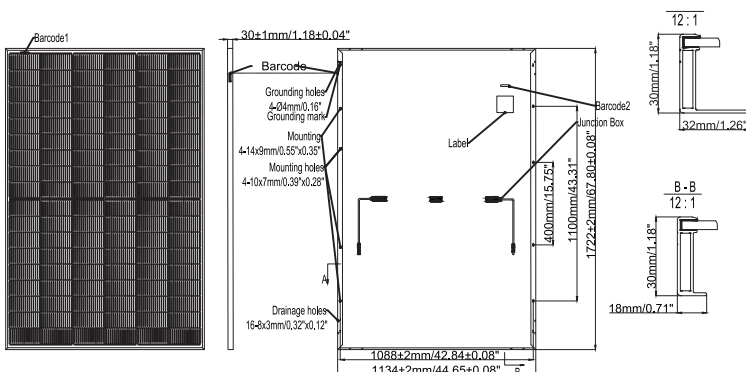
INSURED BY



SPECIFICATIONS

Module type	NESE 415-54TH-M10		NESE 420-54TH-M10		NESE 425-54TH-M10		NESE 430-54TH-M10		NESE 435-54TH-M10	
	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)
Maximum power (Pmax)	415Wp	313Wp	420Wp	317Wp	425Wp	321Wp	430Wp	324Wp	435Wp	329Wp
Maximum power voltage (Vmp)	31.3V	29.5V	31.5V	29.7V	31.7V	29.9V	31.9V	30.1V	32.1V	30.3V
Maximum power current (Imp)	13.26A	10.61A	13.34A	10.67A	13.41A	10.73A	13.47A	10.78A	13.56A	10.84A
Open-circuit voltage (Voc)	37.9V	35.8V	38.1V	36.0V	38.3V	36.1V	38.5V	36.3V	38.7V	36.5V
Short-circuit current (Isc)	13.98A	11.28A	14.05A	11.34A	14.12A	11.39A	14.19A	11.45A	14.26A	11.51A
Module efficiency stc (%)	21.25%		21.51%		21.76%		22.02%		22.28%	
Operating temperature(°C)	-40°C ~ 85°C									
Maximum system voltage	1500(IEC&UL)									
Maximum series fuse rating	25A									
Sorting power tolerance	0~+3%									
Temperature coefficients of Pmax	-(0.30±0.03)%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	+0.046%/°C									
Nominal operating cell temperature(NOCT)	44±2°C									

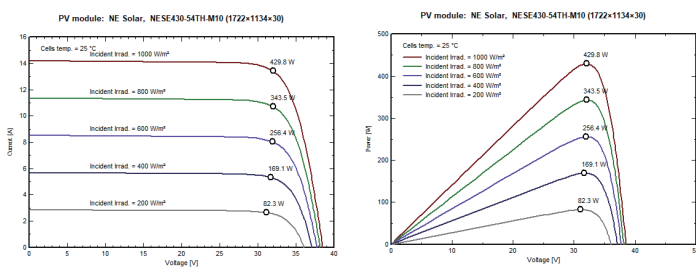
ENGINEERING DRAWING



MATERIAL CHARACTERISTICS

Number of cell	108 (6*18)
Dimensions	1722*1134*30mm 67.80"*44.65"*1.18"
Weight	20.5+/-1kg 45.20+/-2.21lb
Front glass	3.2mm, anti-reflectionCoating, high transmission, low iron, tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68 rated 3 Diodes
Output cables	12 AWG,length: 350-1200mm (13.78-47.24 inch) or Customized length
Connectors	MC4-Compatible or Customized

ELECTRICAL PERFORMANCE & TEMPREATURE DEPENDENCE



Electrical performance & temperature dependence Current-voltage & power-voltage curves (430W)

PACKAGING CONFIGURATION

40HQ	936PCS
Pallet Dimension	1740*1120*1271mm 68.50"*44.09"*50.04"
Pallets in one Container	26 Pallets
Modules in one Pallet	36Pcs