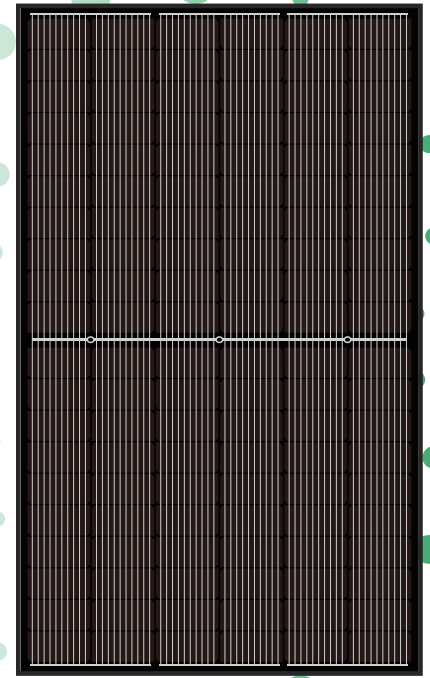




NESE 455-60MH-M10

MONO PERC HALF-CELL BLACK MODULE



KEY FEATURES



High efficiency perc

A high efficiency 182 (M10) PERC solar cell with 10 busbars technology to ensure the efficiency of the solar module up to 21.08% 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.

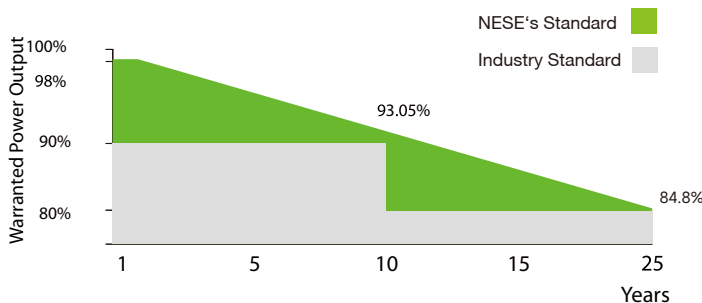


Resistance of extreme environment conditions

High salt mist and ammonia resistance certified by TÜV.

LINEAR PERFORMANCE WARRANTY

12 YEARS PRODUCT WARRANTY. 25 YEARS LINEAR POWER WARRANTY.



MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015/QUALITY MANAGEMENT SYSTEM
ISO 14001:2015/STANDARDS FOR ENVIRONMENTAL MANAGEMENT SYSTEM

PRODUCT CERTIFICATES

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

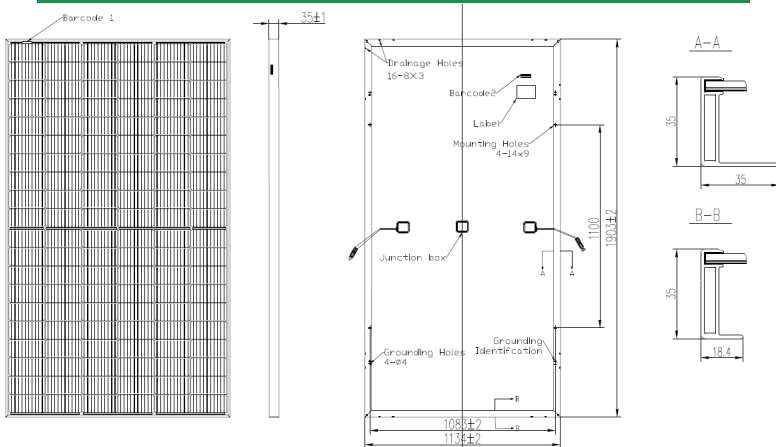
INSURED BY



SPECIFICATIONS

Module type	NESE 435-60MH-M10		NESE 440-60MH-M10		NESE 445-60MH-M10		NESE 450-60MH-M10		NESE 455-60MH-M10	
	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)
Maximum power(pmax)	435Wp	325Wp	440Wp	329Wp	445Wp	333Wp	450Wp	336Wp	455Wp	340Wp
Maximum power voltage(vmp)	33.9V	31.5V	34.1V	31.7V	34.3V	31.9V	34.5V	32.1V	34.7V	32.3V
Maximum power current (imp)	12.84A	10.31A	12.91A	10.37A	12.98A	10.43A	13.05A	10.48A	13.12A	10.54A
Open-circuit voltage(voc)	40.8V	38.1V	41.0V	38.3V	41.2V	38.5V	41.4V	38.7V	41.6V	38.9V
Short-circuit current(isc)	13.57A	10.96A	13.64A	11.02A	13.71A	11.07A	13.78A	11.13A	13.85A	11.18A
Module efficiency stc (%)	20.16%		20.39%		20.62%		20.85%		21.08%	
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	-0.35%/°C									
Temperature coefficients of Voc	-0.29%/°C									
Temperature coefficients of Isc	+0.05%/°C									
Nominal operating cell temperature(NOCT)	44±2°C									

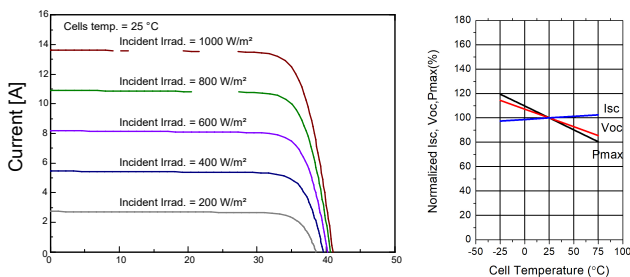
ENGINEERING DRAWING



MATERIAL CHARACTERISTICS

Number of cell	120 (6*20)
Dimensions	1903*1134*35
Weight	23.2+/-1kg
Front glass	3.2mm, anti-reflection Coating, 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 & TEMPERATURE DEPENDENCE



Electrical performance & temperature dependence
Current-voltage & power-voltage curves (440W)
temperature dependence of Isc, Voc, Pmax

PACKAGING CONFIGURATION

40HQ

744PCS