

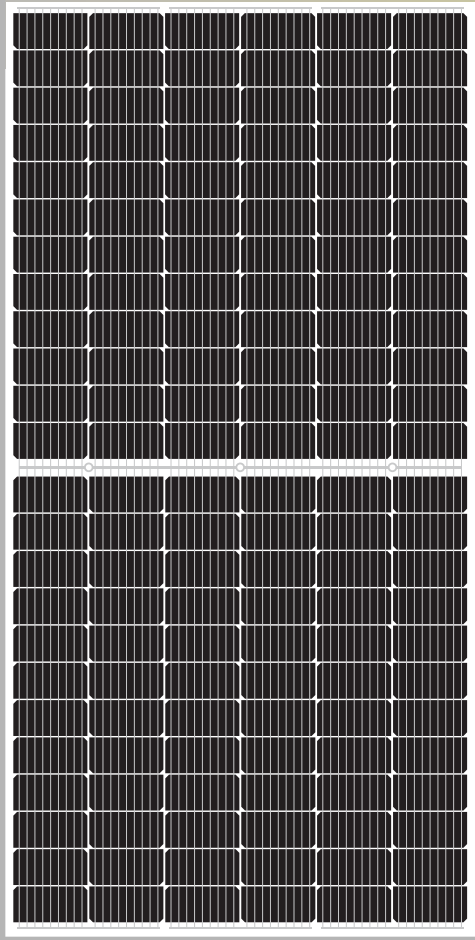


FROM STRENGTH TO STRENGTH IN NATURE

NESE 455-72MH-M6

MONO PERC HALF-CELL SOLAR MODULE

FROM CAMBODIA



KEY FEATURES



High efficiency PERC

A high efficiency 166 (M6) PERC solar cell with 9 busbars technology to ensure the efficiency of the solar module up to 20.93% and stable operation.



0-5W tolerance

0- 5W positive power tolerance.



Excellent performance with weak light

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



Wind/Snow load

Wind load 2400 pa, snow load 5400 pa.



Pid Free

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



Resistance of extreme environment conditions

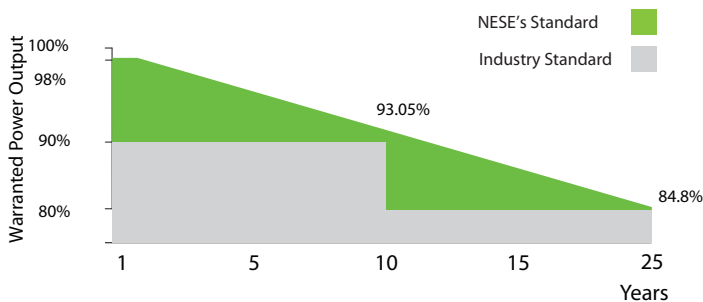
High Salt Mist and Ammonia resistance certified by TUV.

INSURED BY

CHUBB® Munich RE 

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



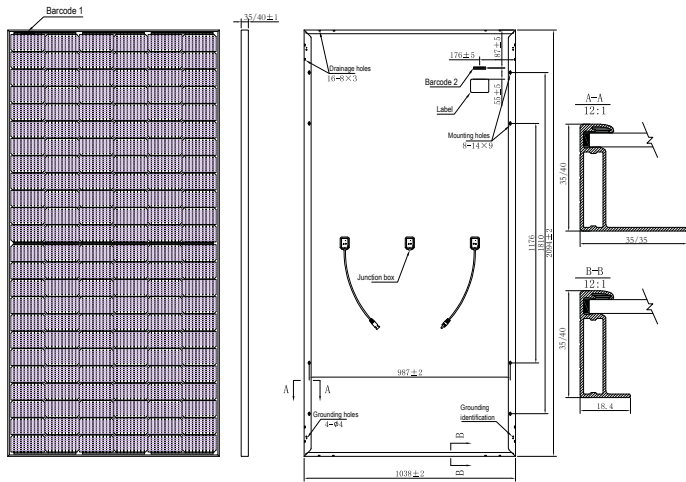
PHUM TANOUN, SANGKAT KOMBOUL, KHAN POSENCHAY, PHNOM PENH, KINGDOM OF CAMBODIA

WWW.NESOLAR.COM.KH

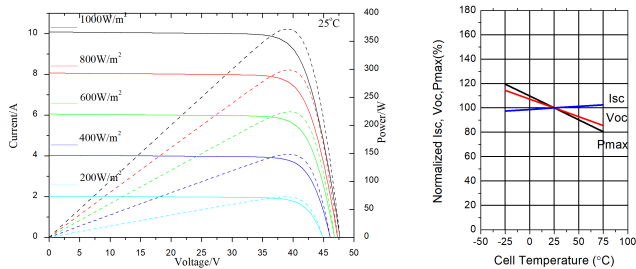
SPECIFICATIONS

Module type	NESE 435-72MH-M6		NESE 440-72MH-M6		NESE445-72MH-M6		NESE450-72MH-M6		NESE455-72MH-M6	
	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)	40.8V	38.1V	41.0V	38.2V	41.2V	38.4V	41.4V	38.6V	41.6V	38.8V
Maximum power current (Imp)	10.67A	8.54A	10.74A	8.60A	10.81A	8.66A	10.87A	8.70A	10.94A	8.76A
Open-circuit voltage(Voc)	49.7V	46.4V	49.9V	46.6V	50.1V	46.7V	50.3V	46.9V	50.5V	47.1V
Short-circuit current(Isc)	11.26A	9.09A	11.33A	9.15A	11.40A	9.21A	11.46A	9.25A	11.53A	9.31A
Module efficiency STC (%)	20.01%		20.24%		20.47%		20.70%		20.93%	
Operating temperature(°C)	-40°C ~ 85°C									
Maximum system voltage	1500 (IEC&UL)									
Maximum series fuse rating	20A									
Sorting power tolerance	0 ~ +3%									
Temperature coefficients of Pmax	-0.36%/°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



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



Electrical performance & temperature dependence
Current-voltage & power-voltage curves (450W)
temperature dependence of Isc, Voc, Pmax

MATERIAL CHARACTERISTICS

Number of cell	144 (6 * 24)
Dimensions	2094*1038*35/40
Weight	24.0/24.1 +/-1.0kg
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: 350-1200 mm (13.78-47.24 inch) or Customized length
Connectors length	MC4-Compatible or Customized
PACKAGING CONFIGURATION	
40HQ	682/594PCS
40HQ (with small carton)	737/638PCS