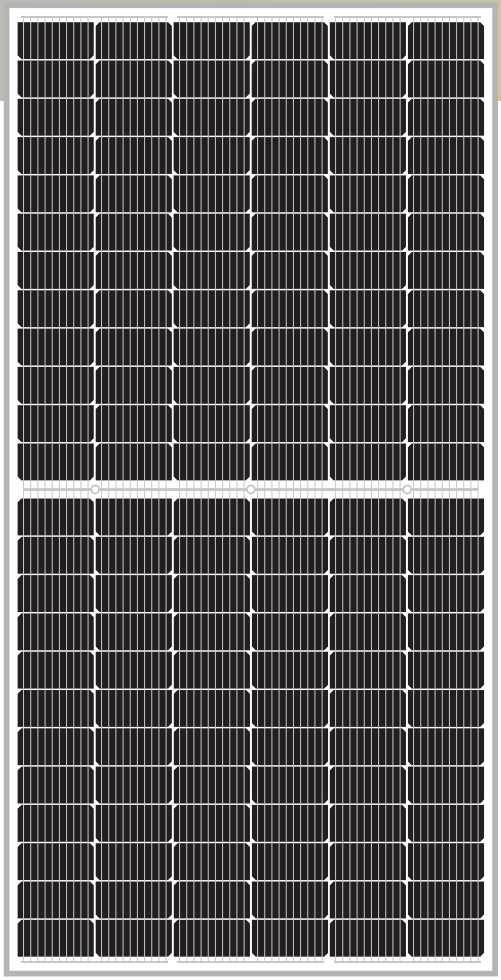
FROM STRENGTH TO STRENGTH IN NATURE

NESE 550-72MHB-M10

MONO PERC HALF-CELL BIFACIAL SOLAR MOUDLE

FROM CAMBODIA



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 21.29% and stable operation.

Bifacial power generation

Increases 10-30% power generation revenue.

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

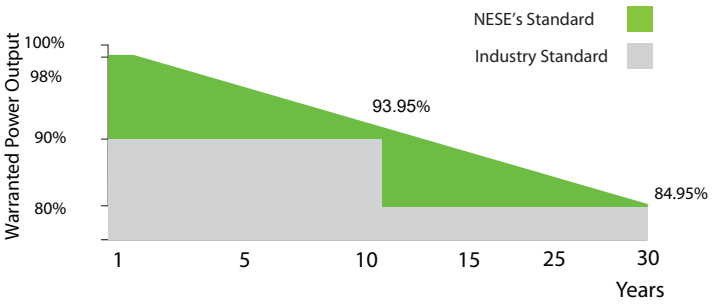
High Salt Mist and Ammonia resistance certified by TUV.

INSURED BY

CHUBB® Munich RE

LINEAR PERFORMANCE WARRANTY

12 years product warranty. 30 years linear power warranty.



MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015/QUALITY MANAGEMENT SYSTEM
ISO 14001:2015/STANDARDS FOR ENVIRONMEN TAL MANAGEMENT SYSTEM

PRODUCT CERTIFICATES

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

PHUM TANOUN, SANGKAT KOMBOUL, KHAN POSENCHEY, PHNOM PENH, KINGDOM OF CAMBODIA
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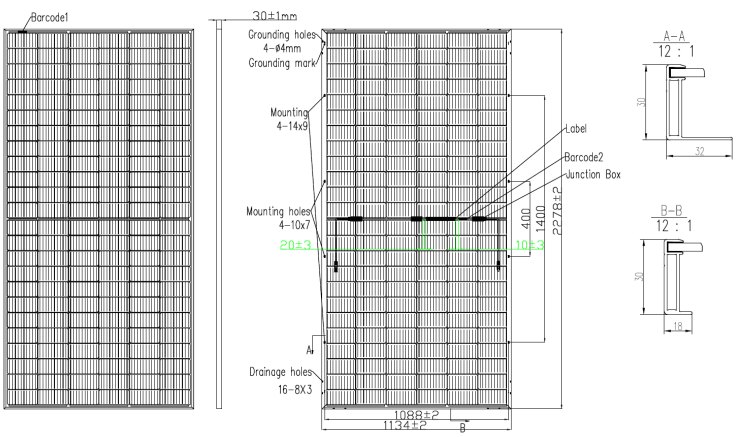
SPECIFICATIONS

Module type	NESE 530-72MHB-M10		NESE 535-72MHB-M10		NESE 540-72MHB-M10		NESE 545-72MHB-M10		NESE 550-72MHB-M10	
	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)
Maximum power(Pmax)	530Wp	396Wp	535Wp	400Wp	540Wp	404Wp	545Wp	407Wp	550Wp	411Wp
Maximum power voltage(Vmp)	41.1V	38.2V	41.3V	38.4V	41.5V	38.5V	41.7V	38.8V	41.9V	38.9V
Maximum power current (Imp)	12.91A	10.38A	12.96A	10.42A	13.02A	10.47A	13.08A	10.49A	13.13A	10.56A
Open-circuit voltage(Voc)	49.4V	46.2V	49.6V	46.3V	49.8V	46.5V	50.0V	46.7V	50.2V	46.9V
Short-circuit current(Isc)	13.65A	11.02A	13.71A	11.07A	13.77A	11.12A	13.83A	1.17A	13.89A	11.22A
Module efficiency STC (%)	20.52%		20.71%		20.90%		21.10%		21.29%	
Operating temperature(℃)	-40℃ ~ 85℃									

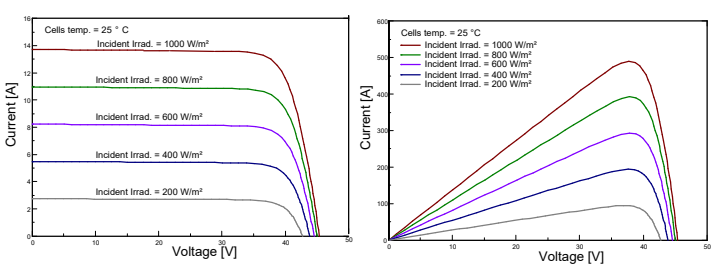
ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN

Front power Pmax/W	530	535	540	545	550
Total power Pmax/W	663	669	675	681	688
Vmp/V(Total)	41.2	41.4	41.6	41.8	42.0
Imp/A(Total)	16.08	16.15	16.23	16.30	16.37
Voc/V(Total)	49.5	49.7	49.9	50.1	50.3
Isc/A(Total)	17.02	17.10	17.17	17.25	17.32

ENGINEERING DRAWING



IV CURVES OF THE PV MODULES



Electrical performance vs Incident Irradiance
Current-voltage & power-voltage curves (545W)

TEMPERATURE RATINGS

NOCT	44 ± 2℃
Temperature coefficients of Pmax	-0.35%/℃
Temperature coefficients of Voc	-0.29%/℃
Temperature coefficients of Isc	+0.05%/℃
Refer. Bifacial Factor	70 ±5%

MATERIAL CHARACTERISTICS

Number of cell	144 (6 * 24)
Dimensions	2278*1134*30mm
Weight	33.5+/-1kg
Front glass	2.0mm+2.0mm heat strengthened glass
Frame	Anodized aluminium alloy
Junction box	Ip68 , 3 diodes
Cables	12 AWG, length: 350 mm or Customized
Connectors	MC4-Compatible

WORKING CONDITIONS

Maximum system voltage	1000/1500 VDC
Maximum series fuse rating	30A

PACKAGING CONFIGURATION

40HQ	720PCS

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