

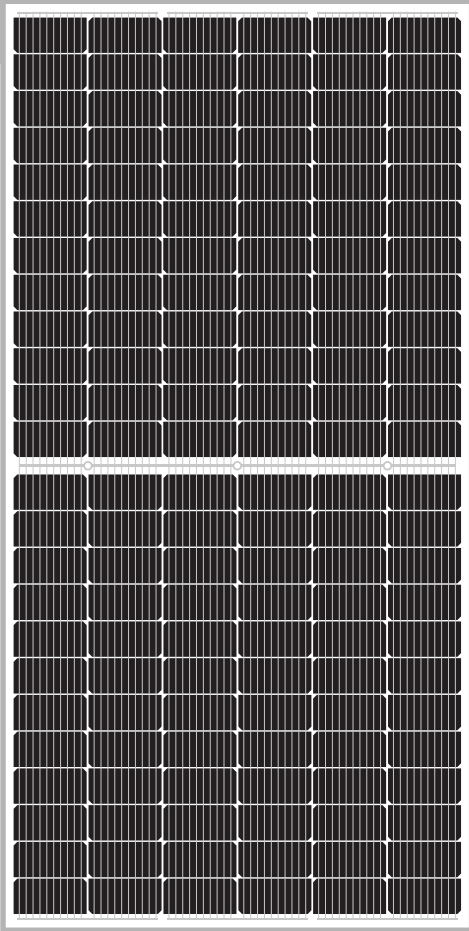


FROM STRENGTH TO STRENGTH IN NATURE

# NESE 540-72MH

MONO PERC HALF-CELL SOLAR MODULE

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 20.85% 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

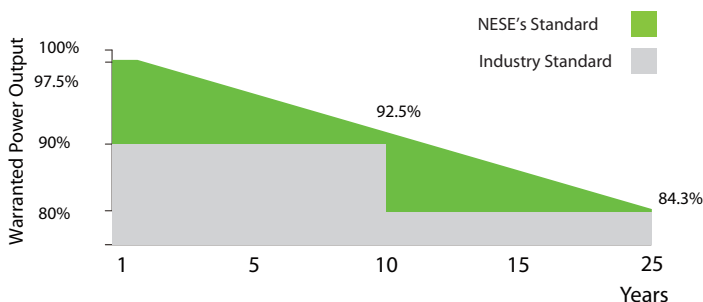
High Salt Mist and Ammonia resistance certified by TUV.

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



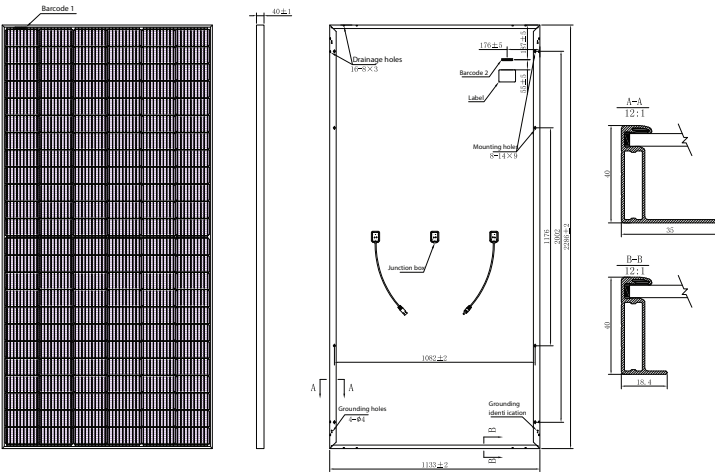
PHUM TANOUN, SANGKAT KOMBOUL, KHAN POSENCHAY, PHNOM PENH, KINGDOM OF CAMBODIA

WWW.NESOLAR.COM.KH

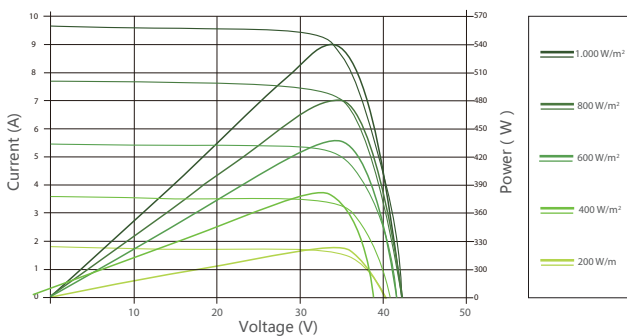
# SPECIFICATIONS

| Module type                              | NESE 520-72MH      |        | NESE 525-72MH |        | NESE 530-72MH |        | NESE 535-72MH |        | NESE 540-72MH |        |
|--|--------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
|  | STC                | (NOCT) | STC           | (NOCT) | STC           | (NOCT) | STC           | (NOCT) | STC           | (NOCT) |
| Maximum power(Pmax)                      | 520Wp              | 389Wp  | 525Wp         | 393Wp  | 530Wp         | 396Wp  | 535Wp         | 400Wp  | 540Wp         | 404Wp  |
| Maximum power voltage(Vmp)               | 40.6               | 37.5V  | 40.8V         | 37.7V  | 41.0V         | 37.9V  | 41.2V         | 38.1V  | 41.4V         | 38.3V  |
| Maximum power current (Imp)              | 12.82A             | 10.35A | 12.88A        | 10.41A | 12.94A        | 10.46A | 13.00A        | 10.51A | 13.05A        | 10.56A |
| Open-circuit voltage( Voc)               | 48.9V              | 45.7V  | 49.1V         | 45.8V  | 49.3V         | 46.0V  | 49.5V         | 46.2V  | 49.7V         | 46.4V  |
| Short-circuit current(Isc)               | 13.54A             | 10.93A | 13.60A        | 10.98A | 13.66A        | 11.03A | 13.72A        | 11.08A | 13.78A        | 11.13A |
| Module efficiency STC (%)                | 20.08%             |        | 20.27%        |        | 20.46%        |        | 20.66%        |        | 20.85%        |        |
| Operating temperature(°C)                | -40°C ~ 85°C       |        |               |        |               |        |               |        |               |        |
| Maximum system voltage                   | 1000/1500 (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 ± 3°C           |        |               |        |               |        |               |        |               |        |

## ENGINEERING DRAWING



## IV CURVES OF THE PV MODULES



Electrical performance vs Incident Irradiance  
Current-voltage & power-voltage curves (540W)

## MATERIAL CHARACTERISTICS

|                                |   |
|--------------------------------|---|
| Number of cell                 | 144 (6 * 24)  |
| Dimensions                     | 2286*1133*40  |
| Weight                         | 29kg  |
| Front glass                    | 3.2mm, anti-reflection Coating, high transmission, low iron, tempered Red 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                     | MC4-Compatible  |
| <b>PACKAGING CONFIGURATION</b> |   |
| 20GP                           | 155PCS  |
| 40GP                           | 310PCS  |
| 40HQ                           | 540PCS  |