

Noark

A CHNT Company



ExSM-M

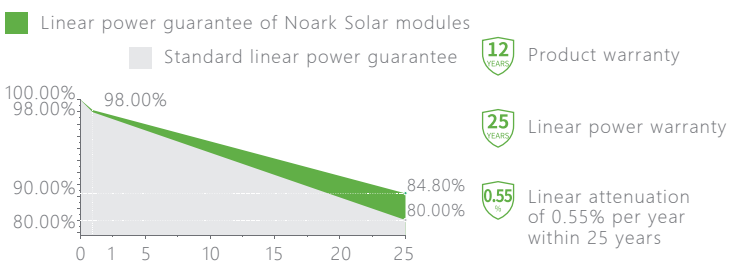
MONOCRYSTALLINE SOLAR MODULE

-  **High Efficiency**
-  **High Reliability**
-  **High ROI**
-  **Low Degradation**
-  **Low Risk of Hot Spot**
-  **Low Risk of Micro-Crack**

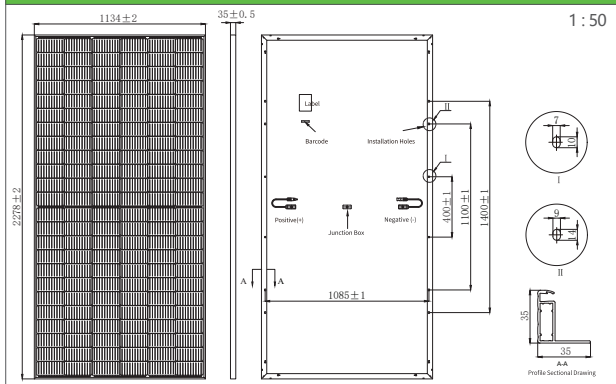


400-109-2111
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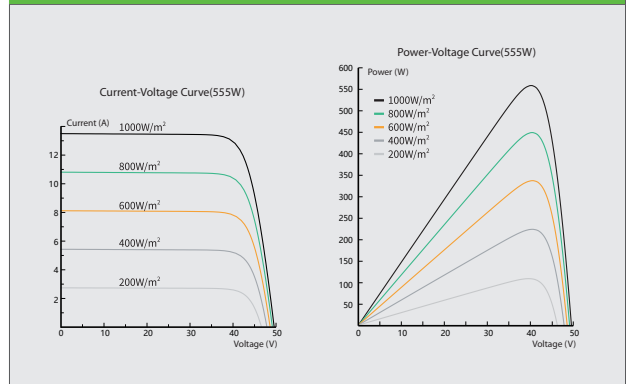
LINEAR PERFORMANCE WARRANTY



Mechanical drawings (mm)



I-V Curve



Electrical Data (STC)

Maximum Power (Pmax/W)	535	540	545	550	555
Open Circuit Voltage (Voc/V)	49.38	49.53	49.68	49.83	49.88
Short Circuit Current (Isc/A)	13.54	13.63	13.71	13.80	13.88
Voltage at Maximum Power (Vmp/V)	40.88	41.03	41.18	41.31	41.43
Current at Maximum Power (Imp/A)	13.10	13.17	13.24	13.32	13.40
Module Efficiency (%)	20.71	20.90	21.10	21.29	21.48
Operating Temperature	-40° C ~ +85° C				
Maximum System Voltage	1000/1500V				

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

Electrical Data (NMOT)

Maximum Power (Pmax/W)	400	404	408	412	416
Open Circuit Voltage (Voc/V)	45.41	45.56	45.71	45.85	46.00
Short Circuit Current (Isc/A)	11.29	11.37	11.44	11.53	11.60
Voltage at Maximum Power (Vmp/V)	37.64	37.79	37.94	38.05	38.17
Current at Maximum Power (Imp/A)	10.64	10.70	10.77	10.83	10.90

NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×35mm
Weight	28.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm ² positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

Temperature Coefficients

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41±3°C

Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	620pcs	31pcs +31pcs