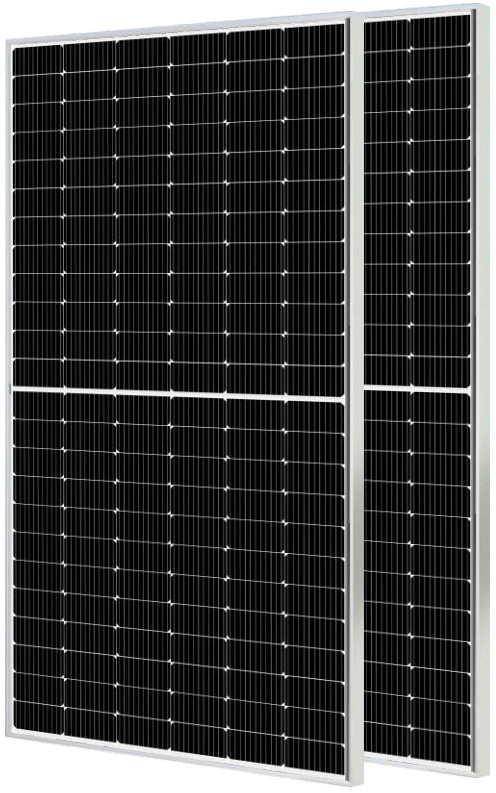
Module Picture



NGD540M-144

Mono Half-cut Single/Double Glass Module

525-550/MB Series

INTRODUCTION

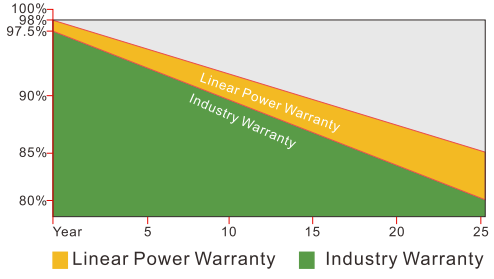
MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

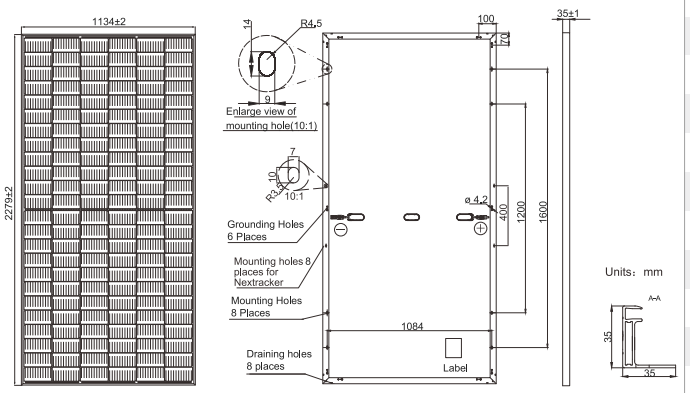
- 10-year warranty for material and technology
- 25-year linear power output warranty



Comprehensive Certificates

- IEC61215,IEC61730
- ISO9001:2015 Quality management systems
- ISO45001:Environmental management systems
- ISO45001:2018 Occupational health and safety management systems

Mechanical Diagrams



PS:Frame color and cable length can be customized

Specifications

Solar Cell(Type/Size)	MONO(182mm)
Solar Cells Number	144pcs(6*24)
Dimensions	2279×1134×35mm
Weight	28.5Kg/Pcs
Structure	3.2 Glass + EVA film + Back
Frame	Anodized Aluminum Alloy
Junction Box	IP68⊠3*Bypass Diode
Cable Cross Section Size	4.0mm²,(+)300mm/(-)400mm
Mechanical Load	Front 5400Pa/Back 2400Pa
Packing Number	31Pcs/Pallet
Packing Volume	3.372Cbm/Pallet
40'HQ Container	620Pcs

Electrical Parameters at STC

Module Type	NGD525P	NGD530P	NGD535P	NGD540P	NGD545P	NGD550P
Rate Maximum Power(Pmax/W)	525	530	535	540	545	550
Module Efficiency(%)	20.30	20.50	20.70	20.90	21.10	21.30
Open Circuit Volatge(Voc/V)	48.95	49.15	49.35	49.55	49.75	49.95
Short Circuit Current(Isc/A)	13.67	13.74	13.82	13.89	13.97	14.05
Voltage at Pmax(Vmp/V)	41.10	41.27	41.45	41.62	41.80	41.97
Current at Pmax(Imp/A)	12.78	12.85	12.91	12.98	13.05	13.11
Power Tolerance	0~+5w					
Temperature Coefficent of Isc	+0.046%℃					
Temperature Coefficent of Voc	-0.276%℃					
Temperature Coefficent of Pmax	-0.350%℃					
STC	Irradiance 1000W/㎡ Cell Temperature 25℃ AM1.5					

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

Electrical Parameters at NOCT

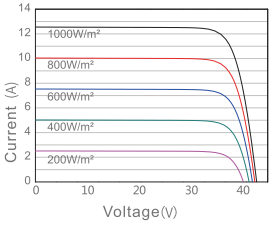
Module Type	NGD525P	NGD530P	NGD535P	NGD540P	NGD545P	NGD550P
Rate Maximum Power(Pmax/W)	396	400	404	407	411	414
Open Circuit Voltage(Voc.V)	46.00	46.13	46.26	46.38	46.50	46.63
Short Circuit Current(Isc/A))	10.95	10.99	11.03	11.08	11.12	11.17
Voltage at Pmax(Vmp/V)	38.35	38.55	38.76	38.95	39.16	39.31
Currrnt at Pmax(Imp/A)	10.33	10.38	10.43	10.46	10.50	10.53
NOCT:Irradiance 800W/㎡ Ambient Temperature 20℃ Wind at 1m/S AM1.5						

Operating Conditions

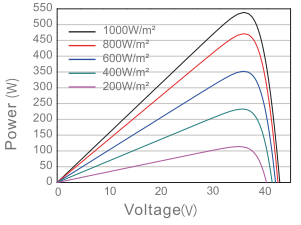
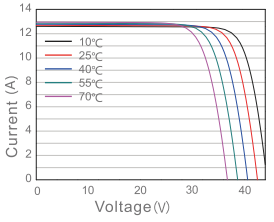
Operating Temperature	-40~+85℃
Maximum System Voltage	1500VDC
NOCT	45±2℃
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics

Current Voltage Curve



Power Voltage Curve



Current Voltage Curve