

NEOSUN™ Duo (Bifacial) NS-132MHDRz 610-640W

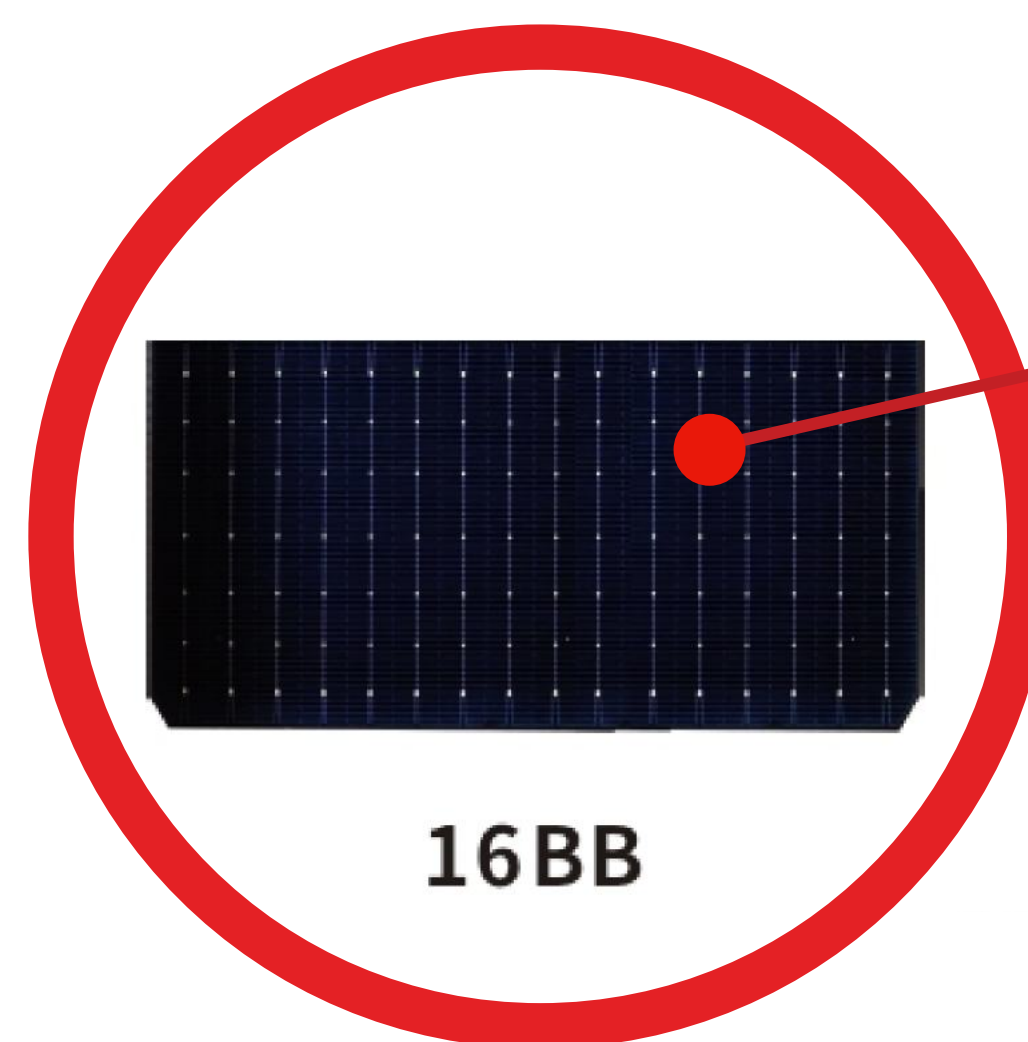
N-TYPE | TOPCON TECHNOLOGY | MONO

POWER RANGE

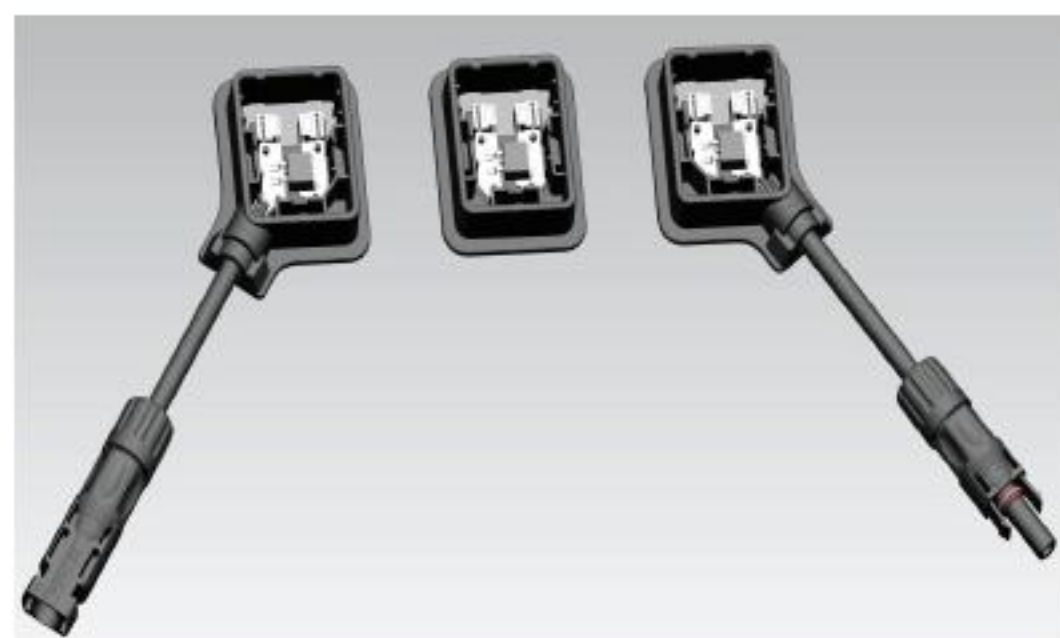
610W ~ 640W

CELL SIZE

182*105mm

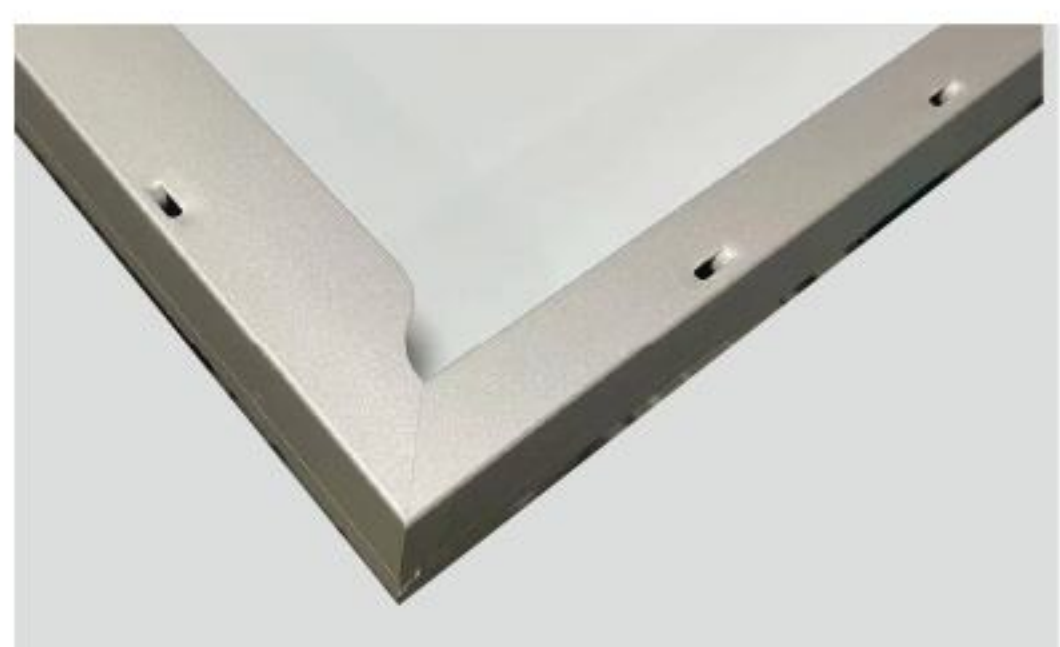


16BB



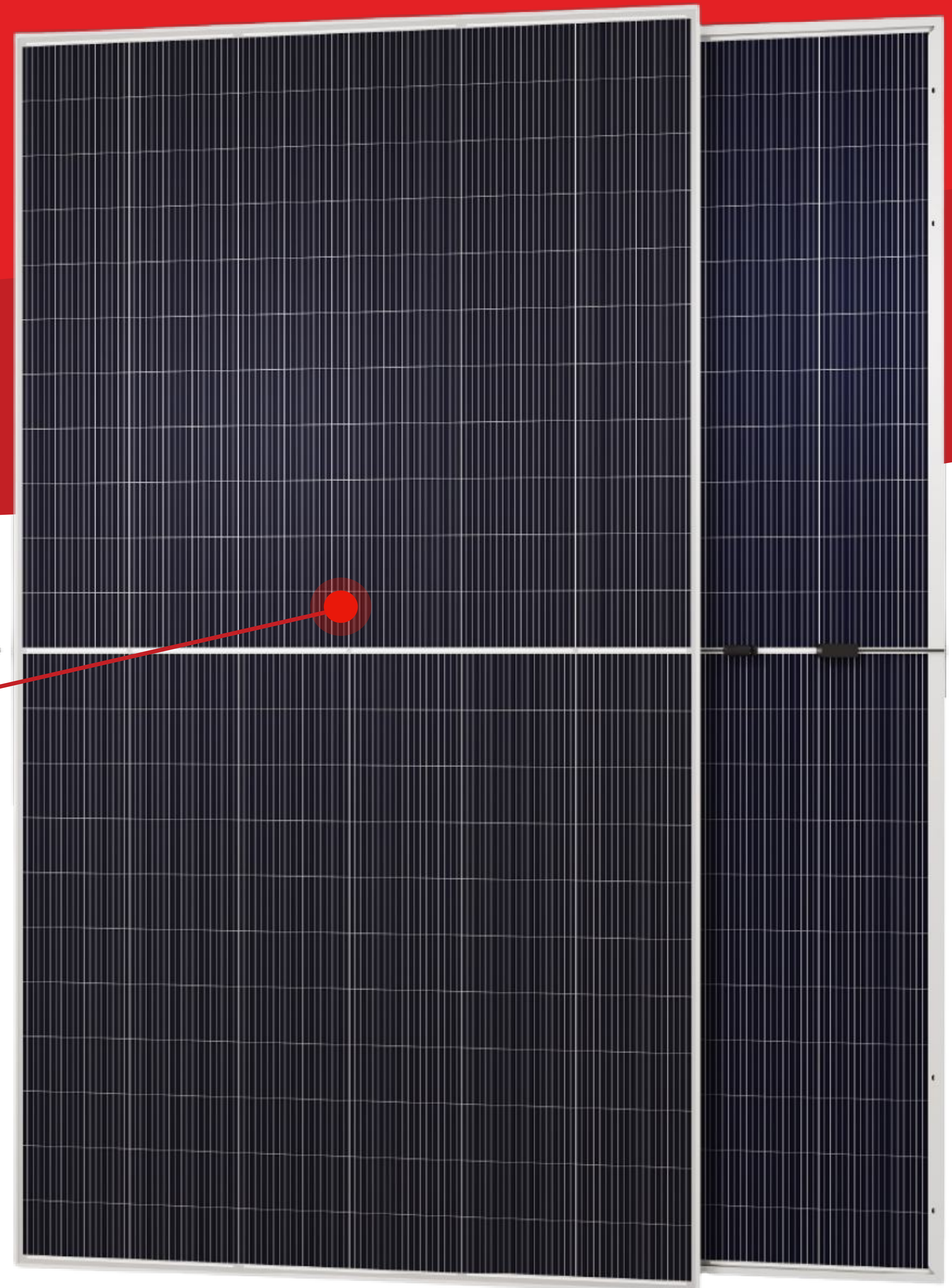
JUNCTION BOX

Waterproof protection grade: IP68
Safety Level: Class II
Maximum System Voltage: 1500V
outstanding waterproof level
Effectively resist harsh environments



FRAME

Strong mechanical load
resistance up to 5400Pa
Anodic oxidation layer resistant to
chemical corrosion

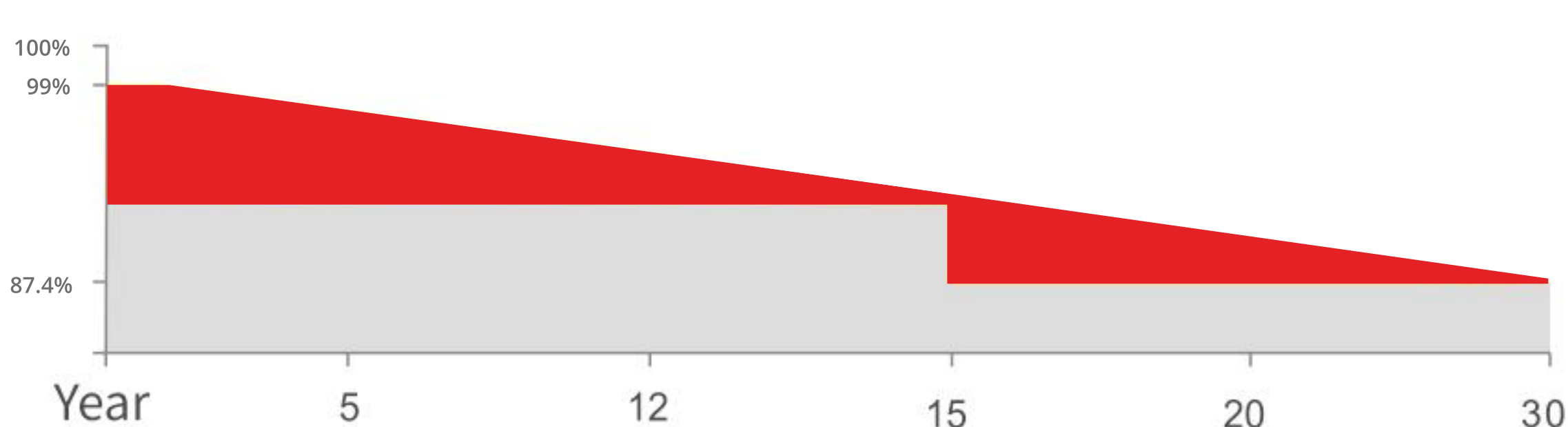


QUALIFICATIONS & CERTIFICATIONS



• IEC61215 / • IEC61730

WARRANTY



15
YEARS

Guarantee on product material and workmanship

30
YEARS

Linear Power output warranty



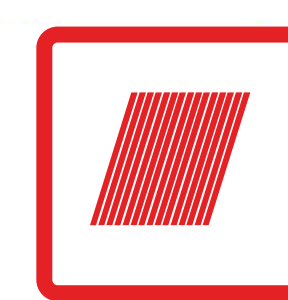
SMBB TECHNOLOGY

Better light trapping and current collection to improve
module power output and reliability.



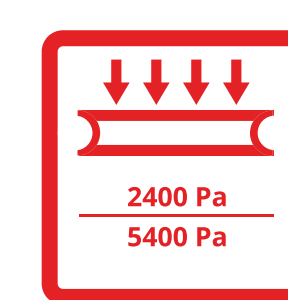
PID RESISTANCE

Excellent Anti-PID performance guarantee via
optimized mass-production process and materials
control.



HIGHER POWER OUTPUT

Module power increases 5-25% generally, bringing
significantly lower LCOE and higher IRR.



ENHANCED MECHANICAL LOAD

Certified to withstand: wind load (2400 Pascal) and snow
load (5400 Pascal).

NEOSUN Energy is a global leader in solar energy, specializing in turnkey solutions for industrial and commercial enterprises. Founded in 2015, we design and build solar power plants and ESS from 200 kW to 10 MW for clients like Adidas, Allianz, FIFA, and Gazprom.

Our products meet top standards (TÜV, MCS, IEC, ISO, CE) thanks to advanced production and strict quality control. We use high-quality silicon cells from Tier 1 suppliers, tested for peak performance and positive power tolerance.

Automated production ensures precision with robotic soldering, assembly, and testing. Panels are X-ray tested, laminated at 1,000 degrees, and flash-tested before assigning a unique ID for traceability. Packed vertically, they arrive in perfect condition.

ELECTRICAL DATA (STC)							
Model Type	NS-132MHDRz-610	NS-132MHDRz-615	NS-132MHDRz-620	NS-132MHDRz-625	NS-132MHDRz-630	NS-132MHDRz-635	NS-132MHDRz-640
Peak Power(Pmax)	610.00	615.00	620.00	625.00	630.00	635.00	640.00
Maximum Power Voltage(Vmp)	40.46	40.60	40.74	40.88	41.02	41.16	41.30
Maximum Power Current(Imp)	15.08	15.15	15.22	15.29	15.36	15.43	15.50
Open Circuit Voltage(Voc)	48.68±3%	48.88±3%	49.08±3%	49.28±3%	49.48±3%	49.68±3%	49.88±3%
Short Circuit Current(Isc)	15.96±3%	16.02±3%	16.08±3%	16.14±3%	16.20±3%	16.26±3%	16.32±3%
Module Efficiency(%)	22.6	22.8	23.0	23.1	23.3	23.5	23.7

*STC:irradiance 1000W/m², AM1.5, and cell temperature of 25°C

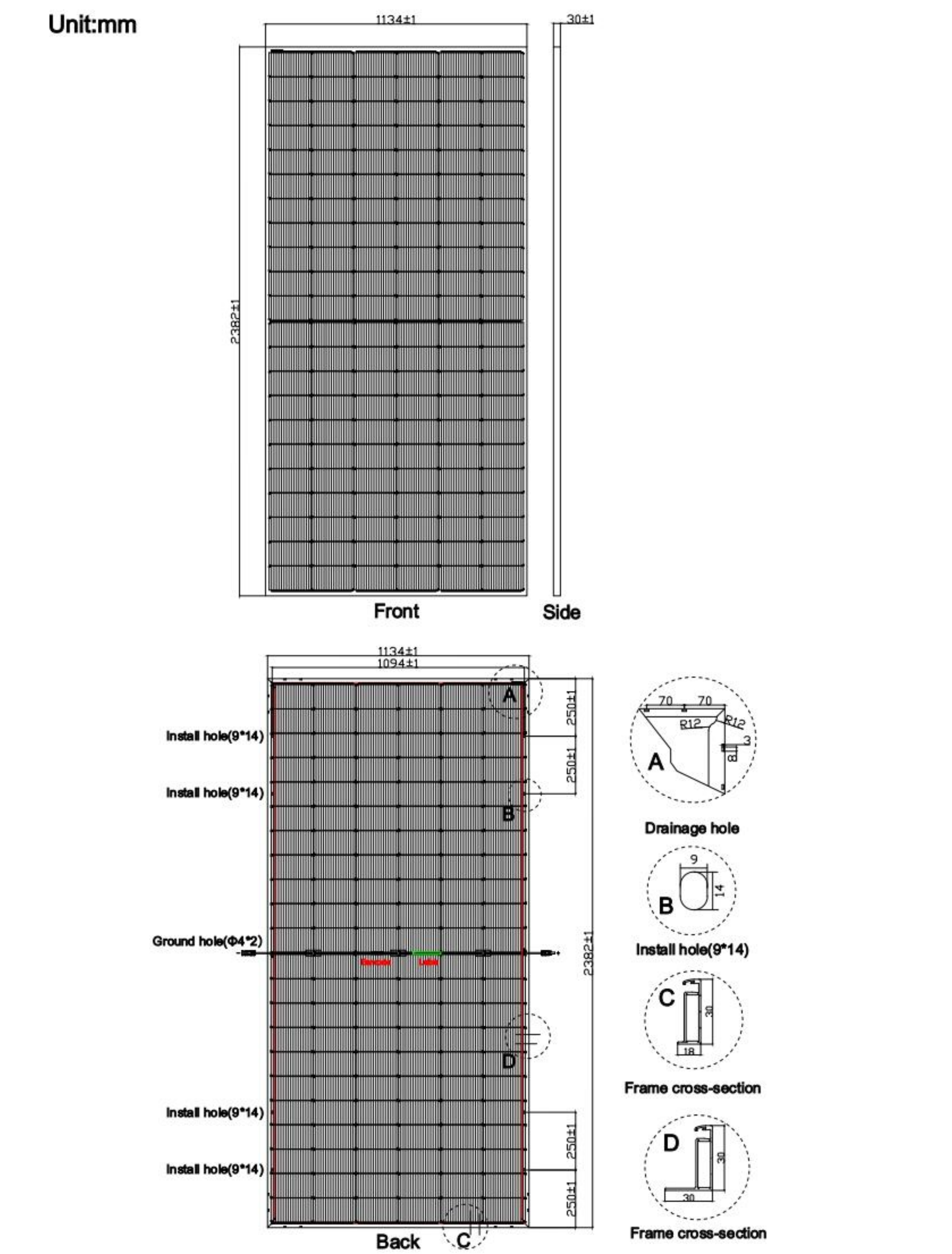
ELECTRICAL DATA (NMOT)							
Model Type	NS-132MHDRz-610	NS-132MHDRz-615	NS-132MHDRz-620	NS-132MHDRz-625	NS-132MHDRz-630	NS-132MHDRz-635	NS-132MHDRz-640
Peak Power(Pmax)	462.00	466.00	469.00	473.00	477.00	481.00	484.00
Maximum Power Voltage(Vmp)	38.28	38.41	38.54	38.67	38.80	38.94	38.07
Maximum Power Current(Imp)	12.07	12.13	12.17	12.23	12.29	12.35	12.39
Open Circuit Voltage(Voc)	46.05±3%	46.24±3%	46.43±3%	46.62±3%	46.81±3%	47.00±3%	47.19±3%
Short Circuit Current(Isc)	12.73±3%	12.80±3%	12.84±3%	12.90±3%	12.97±3%	13.03±3%	13.07±3%

* NMOT: irradiance 800 W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s

ELECTRICAL DATA (BNPI)							
Model Type	NS-132MHDRz-610	NS-132MHDRz-615	NS-132MHDRz-620	NS-132MHDRz-625	NS-132MHDRz-630	NS-132MHDRz-635	NS-132MHDRz-640
Peak Power(Pmax)	671.00	677.00	682.00	688.00	693.00	699.00	704.00
Maximum Power Voltage(Vmp)	40.46	40.59	40.75	40.88	41.04	41.16	41.30
Maximum Power Current(Imp)	16.58	16.66	16.74	16.82	16.89	16.97	17.05
Open Circuit Voltage(Voc)	48.66±3%	48.86±3%	49.06±3%	49.26±3%	49.46±3%	49.66±3%	49.86±3%
Short Circuit Current(Isc)	17.50±3%	17.58±3%	17.66±3%	17.74±3%	17.82±3%	17.90±3%	17.98±3%

*BNPI:back irradiance 135W/m², AM1.5, and cell temperature of 25°C

PV DRAWINGS



PACKING WAY	
20FT container	4 Packages/148pcs
40HQ container	20Packages/740pcs

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Power Tolerance (W)	0~+3%
Pmax Temperature Coefficients (W/°C)	-0.290%
Voc Temperature Coefficients (V/°C)	-0.250%
Isc Temperature Coefficients (A/°C)	+0.045%
NMOT Nominal Module Operating Temperature (°C)	45±2
Operating and Storage Temperature (°C)	-40~+85

MECHANICAL CHARACTERISTICS

Cell Type	182*105 Mono
No. of Cells	132 (12*11)
Dimensions	2382*1134*30mm
Weight	32.40kg
Front Glass	2.0mm AR coating tempered glass
Back Glass	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3diodes
Output cables	4mm² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

UV CURVE (630W)

