



N Type



LiteRigid Module
(No Frame)
ENE-RH108NE

490W~510W

510W
Maximum
Power Output

23.1%
Maximum
Module Efficiency

0~+5W
Power Output
Tolerance

Key Features



High Efficiency

Leading module efficiency in industry, up to 23.1%



Half Cell, SMBB Technology

Series-then-parallel cell connection design, more reliable soldering technology



Low NMOT

As low as 43°C, improving the power generation efficiency



High Reliability

Passed 3*IEC standard test



Reduce Mismatch Loss

Half-cut cell technology provides optimized energy production under inter-row shading conditions



Better low irradiance performance

Higher power output even under low irradiance environments like on cloudy or foggy days

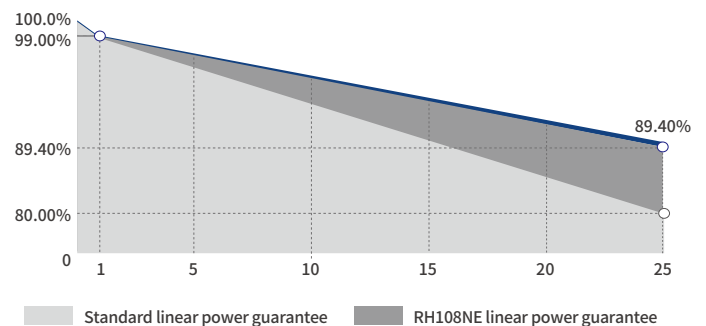
Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety Management System



-1.00%

1st-year Degradation

-0.40%

Annual Degradation

12
Years

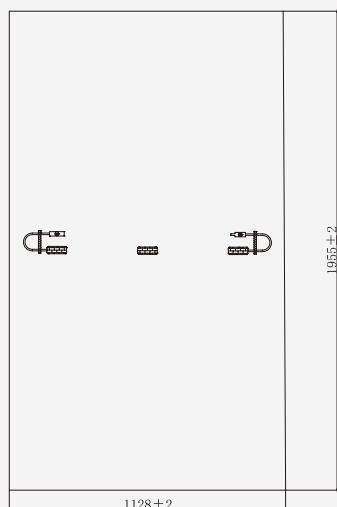
materials and
workmanship warranty

25
Years

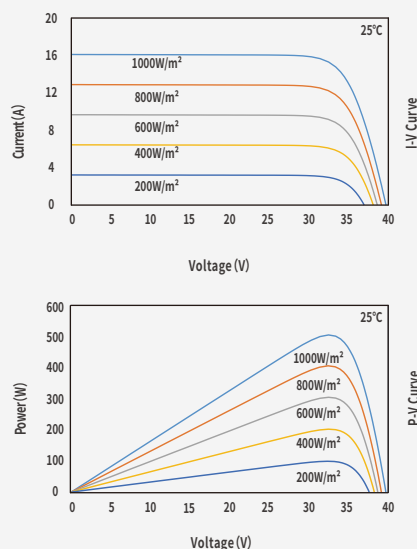
linear
power warranty

Leading product and power warranty

Engineering Drawing (mm)



Characteristic Curves(500W)



Electrical Parameters (STC *)

Nominal Max. Power(Pmax/W)	490	495	500	505	510
Open Circuit Voltage(Voc/V)	39.49	39.67	39.85	40.04	40.23
Short Circuit Current(Isc/A)	15.87	15.94	16.01	16.07	16.13
Operating Voltage(Vmp/V)	33.23	33.41	33.58	33.77	33.96
Operating Current(Imp/A)	14.75	14.82	14.89	14.96	15.02
Efficiency(%)	22.2	22.4	22.7	22.9	23.1

STC * : Irradiance = 1000 W/m², Cell Temperature = 25°C, AM = 1.5
Test condition is based on the front side

Mechanical Parameters

Cell Type	N Type
Module Size	1955×1128×2.2mm
Module Thickness	2.2mm
Module Weight	9.9Kg
Output Cable	4mm ² , cable length +300mm/-200mm (can be customized)
Connector	PV-DA02M2-XY
Junction Box	IP68, 3 bypass diodes
Frame	No Frame

Electrical Parameters (NMOT *)

Nominal Max. Power(Pmax/W)	372	376	380	384	387
Open Circuit Voltage(Voc/V)	37.71	37.88	38.06	38.24	38.42
Short Circuit Current(Isc/A)	12.80	12.86	12.91	12.96	13.01
Operating Voltage(Vmp/V)	31.29	31.46	31.63	31.80	31.98
Operating Current(Imp/A)	11.90	11.95	12.01	12.06	12.11

NMOT *: Irradiance = 800 W/m², Ambient Temperature = 20°C, AM = 1.5,
Wind Speed = 1 m/s
Test condition is based on the front side

Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	25A
Static Load	Snow load 2400Pa, Wind load 2400Pa

Temperature Coefficients

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.250%/°C
Nominal Max. Power(Pmax)	-0.280%/°C
NMOT	43 ±2°C

Packing Data

Packing Type	20'GP	40'HQ
Piece/Pallet	50	50
Pallet/Container	5	22
Piece/Container	250	1100



Version number :: ENE-MS-2025.04.29
All data contained in this datasheet is subject to change without notice.
The right of final interpretation belongs to ENE Solar.

