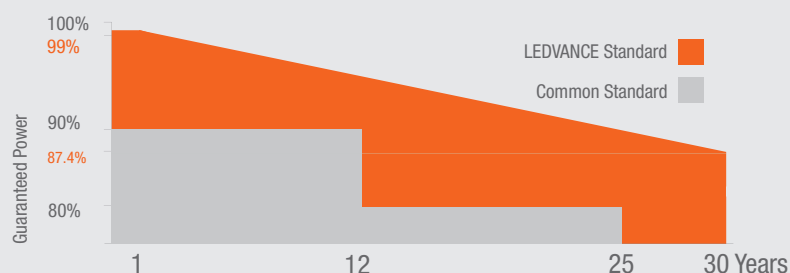




M495~515N54RB-BB

108 Half-Cut Cells
Monocrystalline N-TOPCon Bifacial PV
Module
Full Black



**25
YEARS**

**Product
guarantee**

**30
YEARS**

**Linear Power
guarantee**

**495-
515p**

**Power
range**

23.17%

**Maximum
efficiency**

0.40%

**Yearly
degradation**



Excellent Cell Efficiency

Super multi Bus Bar technology increases the efficiency of the modules



Resistance to power degradation

Resistance to power degradation caused by Potential-Induced Degradation PID effect, thanks to strict quality control in the module production process and other subassemblies



Better Weak Illumination Response

Excellent performance in weak light conditions, such as haze, clouds and early morning



Adapted to harsh outdoor environments

Resistant to harsh environments such as salt, ammonia, sand, high temperatures and high humidity environments



Highest production standards

Guarantees of operational reliability and quality module production go far beyond requirements specified in certificates



IEC 61215: Design suitability and type approval
IEC 61730: Safety qualification
IEC 61701: Salt mist corrosion testing
IEC 62716: Ammonia corrosion testing
IEC 60068: Environmental testing: Dust and sand

With subsidiaries in more than 50 countries and business activities in over 150 countries, LEDVANCE is committed to supplying reliable and durable PV products to customers to create together a greener planet.

Dimensions of PV module (mm)

Front View

Barcode

30

200

1960

1134

Back View

1134

1960

1360

860

1084

Label

Barcode

Mounting Hole

Zoom In

4-10*7

Mounting Hole

4-14*9

Mounting Hole

6-Grounding Hole

8-Drain Hole

Ø4.3

9

Ø4.5

7

10

Ø3.5

11.5±0.2

30±0.2

30±0.2

20±0.2

30±0.2

20±0.2

NOTE:
Frame color and cable length can be customized.

ELECTRICAL CHARACTERISTIC STC ¹⁾					
Module	M495N54 RB-BB	M500N54 RB-BB	M505N54 RB-BB	M510N54 RB-BB	M515N54 RB-BB
Nominal power Watt P _{max} (Wp)	495	500	505	510	515
Maximum power voltage V _{mp} (V)	33.33	33.50	33.67	33.84	34.01
Maximum power current I _{mp} (A)	14.86	14.93	15.00	15.08	15.15
Open circuit voltage V _{oc} (V)	39.03	39.20	39.37	39.54	39.71
Short circuit current I _{sc} (A)	15.84	15.90	15.96	16.02	16.08
Module efficiency η (%)	21.27	22.50	22.72	22.95	23.17

Measuring tolerance: + 3%

ELECTRICAL CHARACTERISTIC BNPI ²⁾					
Power Level	495	500	505	510	515
Maximum power P _{max} (Wp)	546.6	552.1	557.6	563.4	568.6
Maximum power voltage V _{mp} (V)	33.53	33.70	33.87	34.04	34.21
Maximum power current I _{mp} (A)	16.30	16.38	16.46	16.55	16.62
Open circuit voltage V _{oc} (V)	39.23	39.40	39.57	39.74	39.91
Short circuit current I _{sc} (A)	17.39	17.46	17.53	17.60	17.66

Measuring tolerance: + 3%

WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Operating humidity	5~85%
Maximum series fuse	30 A
Front/Rear load	5400 Pa / 2400 Pa

MECHANICAL DATA

Solar cells	Monocrystalline N-TOPCon
Number of cells	108 (6x18) pcs
Size of cells	182 x 105 mm
Module dimension	1960x1134x30 mm
Frame color	BB – Full black
Weight	27±1 kg
Glass	2.0 mm tempered glass, anti-reflective coating
Type of frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cables	4 mm², Portrait: 1200 mm or Customized Length
Connectors	MC4-Evo2

TEMPERATURE RATINGS

STC	25±2 °C
Temperature coefficient of P_{max}	-0.300 % / °C
Temperature coefficient of V_{oc}	-0.250 % / °C
Temperature coefficient of I_{sc}	0.046% / °C

PACKAGING CONFIGURATION

Piece / Box	36
Size of packing	2000×1140×1250 mm
Weight of packing	1002 kg
Piece / Container (40'HC)	864

FOOTNOTES:

1) STC (Standard Test Conditions): 1000W/m² solar irradiance, cell temperature 25°C, AM 1.5G

2) BNPI (Bifacial Nameplate Irradiance) :Irradiance:front 1000W/m²,rear 135W/m²,Cell Temperature 25 C ,AM 1.5G

CAUTION:

- Do not connect two or more strings of modules to one fuse.
- The electrical data in this product sheet does not refer to a single module and is not part of the offer, it is used to compare different types of modules only.
- Due to continuous technical innovation, development and product improvement, technical data contained in this product sheet is subject to change at any time without notice and may not be the basis for any damage claims.