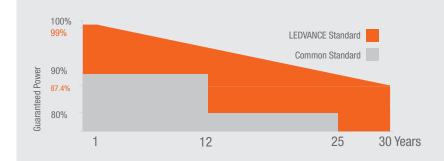


M485~505N54RB-BF-F7

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









Power range



Maximum efficiency



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



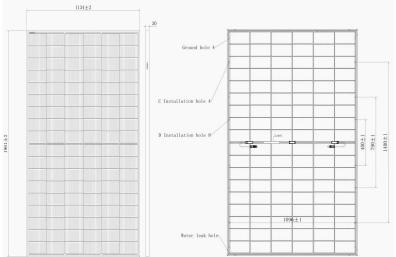


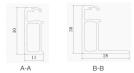
IEC 61215: Design suitability and type approval IEC 61730: Safety qualification IEC 61701: Salt mist corrosion testing IEC 62716: Ammonia corrosion testing IEC 62716: Ammonia corrosion testing IEC 60068: Environmental testing: Dust and sand

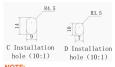
With subsidiaries in more than 50 countries and business activities in over 150 countries, LEDVANCE is committed to supplying reliable and durable PV products to customers to create together a greener planet.

Dimensions of PV module (mm)

Front View Back View

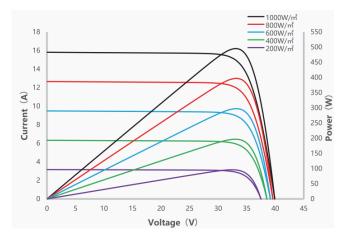




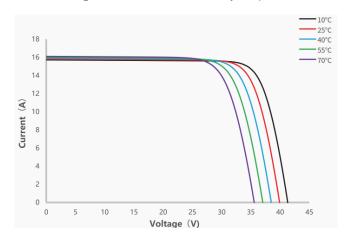


NOTE: Frame color and cable length can be customized.

Current-voltage curve of the module by different insolation



Current-voltage curve of the PV module by temperature



| ELECTRICAL CHARACTERISTIC STC ¹⁾ | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|
| Module | M485N54 RB-BF | M490N54 RB-BF | M495N54 RB-BF | M500N54 RB-BF | M505N54 RB-BF |
| Nominal power Watt P _{max} (Wp) | 485 | 490 | 495 | 500 | 505 |
| Maximum power voltage V _{mpp} (V) | 32.72 | 32.92 | 33.12 | 33.32 | 33.52 |
| Maximum power current I _{mpp} (A) | 14.84 | 14.90 | 14.96 | 15.02 | 15.08 |
| Open circut voltage V _{oc} (V) | 39.52 | 39.72 | 39.92 | 40.12 | 40.32 |
| Short circut current I₅c (A) | 15.76 | 15.79 | 15.82 | 15.85 | 15.88 |
| Module efficiency η(%) | 21.81 | 22.03 | 22.26 | 22.48 | 22.71 |
| Measuring tolerance: +3% | | | | | |
| Bifacial Output-Rearside Power Gain (495W) | | | | | |
| Power Gain | E0/ | 100/ | 150/ | 200/ | 250/ |

| Bifacial Output-Rearside Power Gain (495W) | | | | | |
|--|-------|-------|-------|-------|-------|
| Power Gain | 5% | 10% | 15% | 20% | 25% |
| Maximum Power (Pmax)[W] | 519 | 544 | 569 | 594 | 619 |
| Open-Circuit Voltage (Voc)[V] | 39.92 | 39.92 | 39.92 | 40.02 | 40.02 |
| Maximum Power Voltage (Vmp)[V] | 33.12 | 33.12 | 33.12 | 33.22 | 33.22 |
| Short-Circuit Current (Isc)[A] | 16.55 | 17.33 | 18.14 | 18.87 | 19.70 |
| Maximum Power Current (Imp) [A] | 15.69 | 16.44 | 17.18 | 17.89 | 18.64 |

| ELECTRICAL CHARACTERISTIC NMOT 2) | | | | | |
|--|-------|-------|-------|-------|-------|
| Power Level | 485 | 490 | 495 | 500 | 505 |
| Maximum power P _{max} (Wp) | 370 | 374 | 378 | 382 | 386 |
| Maximum power voltage V _{mpp} (V) | 30.73 | 31.00 | 31.27 | 31.54 | 31.81 |
| Maximum power current I _{mpp} (A) | 12.05 | 12.08 | 12.11 | 12.14 | 12.16 |
| Open circuit voltage V _{oc} (V) | 37.99 | 38.07 | 38.15 | 38.23 | 38.31 |
| Short circuit current I _{sc} (A) | 12.73 | 12.75 | 12.77 | 12.79 | 12.81 |

| 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 | 210 x 105 mm |
| Module dimension | 1961 x 1134 x 30 mm |
| Frame color | BF – Black frame |
| Weight | 26.5±1 kg |
| Glass (Front/Back) | 2.0 mm tempered glass, anti-reflective coating |
| Type of frame | Anodized aluminum alloy |
| Junction box | IP68, 3 diodes |
| Cables | 4 mm ² , Portrait: 1200 mm or Customized Length |
| Connectors | MC4-Evo2 |

| TEMPERATURE RATINGS | |
|---|--------------|
| NMOT | 45±2 °C |
| Temperature coefficient of P _{max} | -0.290% / °C |
| Temperature coefficient of V₀c | -0.260% / °C |
| Temperature coefficient of I _{sc} | 0.045% / °C |

| PACKAGING CONFIGURATION | l . |
|---------------------------|-------------------|
| Piece / Box | 36 |
| Size of packing | 1969×1100×1130 mm |
| Weight of packing | 1009.5 kg |
| Piece / Container (40'HC) | 864 |

FOOTNOTES:
1) STC (Standard Test Conditions): 1000W/m² solar irradiance, cell temperature 25°C, AM 1.5G
2) NMOT (nominal cell operating temperature): insolation 800W/m², ambient temperature 20°C, AM 1.5G, wind speed 1m/s

CAUTION:

- 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.