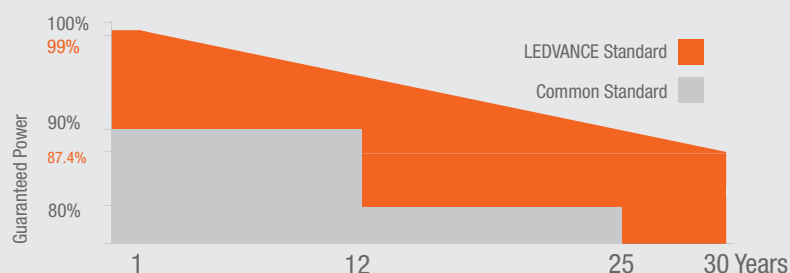


M560~580N72LB-SF-F3

144CELLS HALF-CUT
Mono N-TOPCon Bifacial PV Module
Silver Frame



15 YEARS Product guarantee

30 YEARS Output guarantee

560-580Wp

Power range

22,45%

Maximum efficiency

0,40%

Yearly degradation



SMBB

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

More power output 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

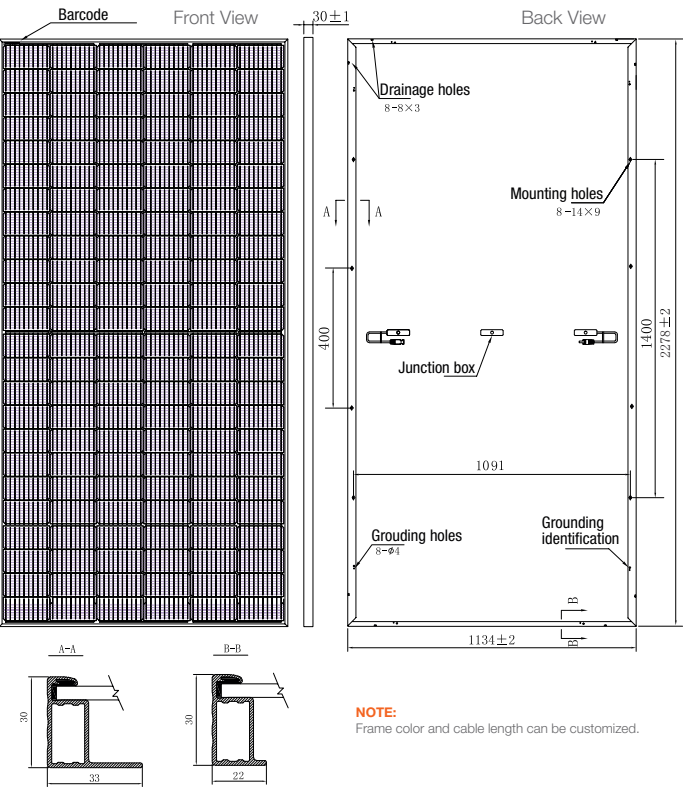
Guarantees of operational reliability and quality module implementations go far beyond requirements specified in certificates



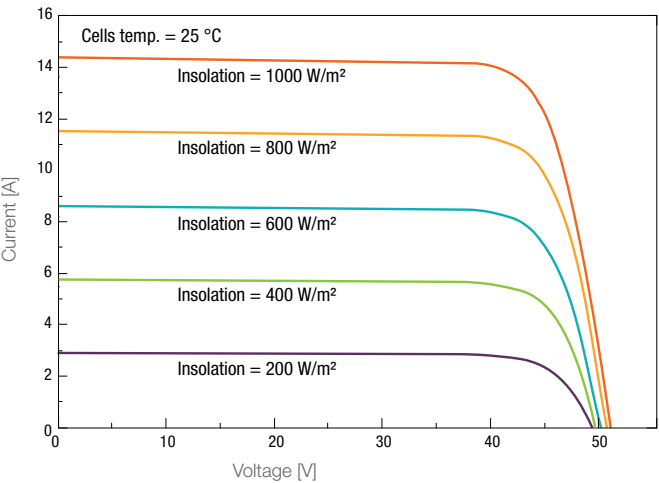
IEC 61215: Design suitability and type approval
IEC 61730: Safety qualification
IEC 61701: Salt mist corrosion testing
IEC 62716: Ammonia corrosion testing
IEC 60068: Environmental testing: Dust and sand

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.

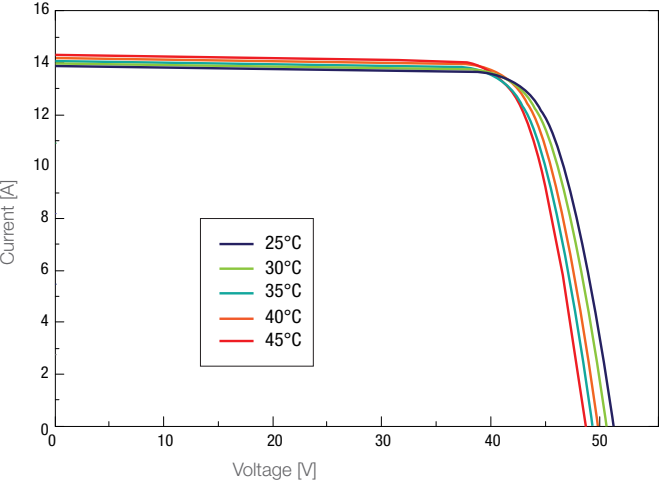
Dimensions of PV module (mm)



Current-voltage curve of the module by different insolation



Current-voltage curve of the PV module by temperature



ELECTRICAL CHARACTERISTIC | STC ¹⁾

Power Level	560	565	570	575	580
Nominal power Watt P _{max} (Wp)	560	565	570	575	580
Maximum power voltage V _{mpp} (V)	41.98	42.17	42.35	42.53	42.71
Maximum power current I _{mpp} (A)	13.34	13.40	13.46	13.52	13.58
Open circuit voltage V _{oc} (V)	50.70	50.87	51.06	51.24	51.42
Short circuit current I _{sc} (A)	14.12	14.19	14.25	14.31	14.37
Module efficiency η(%)	21.67	21.87	22.06	22.25	22.45

Measuring tolerance: ±3%

Bifacial Output-Backside Power Gain

10%	Maximum power P _{max} (Wp)	616	621	627	632	638
	Module efficiency η(%)	23.84	24.03	24.27	24.46	24.69
20%	Maximum power P _{max} (Wp)	672	678	684	690	696
	Module efficiency η(%)	26.01	26.24	26.47	26.71	26.94

ELECTRICAL CHARACTERISTIC | NMOT ²⁾

Power Level	560	565	570	575	580
Maximum power P _{max} (Wp)	421	425	429	432	436
Maximum power voltage V _{mpp} (V)	39.42	39.58	39.73	39.78	39.90
Maximum power current I _{mpp} (A)	10.68	10.74	10.80	10.86	10.93
Open circuit voltage V _{oc} (V)	48.16	48.35	48.54	48.73	48.92
Short circuit current I _{sc} (A)	11.40	11.45	11.49	11.54	11.59

Measuring tolerance: ±3%

WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Operating humidity	5~85%
Maximum series fuse	25 A
Front/Rear side load	5400 pa / 2400 pa

MECHANICAL DATA

Solar cells	Mono N-type
Number of cells	144 (6x24) pcs
Size of cells	182 x 91 mm
Module dimension	2278 x 1134 x 30 mm
Frame color	SF – silver
Weight	31.7±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, 300 mm or 1400 mm
Connectors	Stäubli MC4 EVO 2

TEMPERATURE RATINGS

NMOT	44±2 °C
Temperature coefficient of P _{max}	-0.30% / °C
Temperature coefficient of V _{oc}	-0.25% / °C
Temperature coefficient of I _{sc}	0.046% / °C

PACKAGING CONFIGURATION

Piece / Box	36
Size of packing	2320 x 1135 x 1255 mm
Weight of packing	1186 kg
Piece / Container (40'HC)	720

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:

- 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.