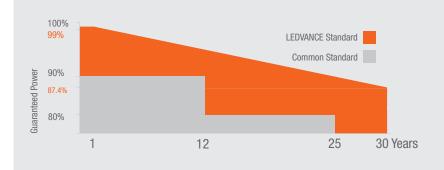


M575-595N72LB-BF-F7

144CELLS HALF-CUT Bifacial N-TOPCon PV Module Black Frame

















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

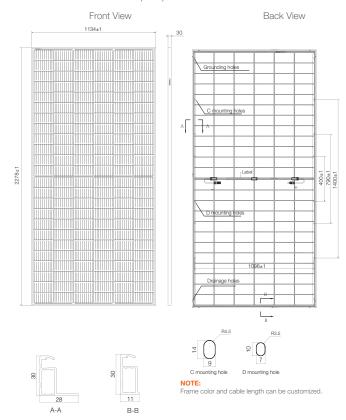




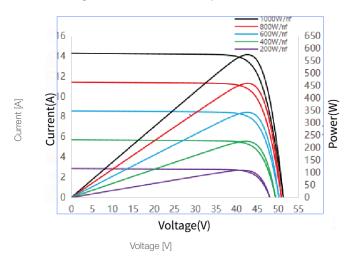
IEC 61215: Design suitability and type approval IEC 61730: Safety qualification IEC 61701: Salt mist corrosion testing IEC 62716: Ammonia corrosion testing IEC 62716: Ammonia corrosion testing IEC 60068: Environmental testing: Dust and sand

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.

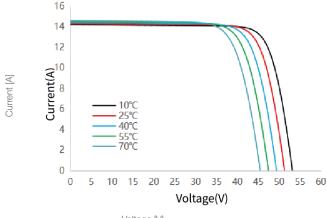
Dimensions of PV module (mm)



Current-voltage curve of the module by different insolation



Current-voltage curve of the PV module by temperature



Voltage [V]

ELECTRICAL CHARACTERISTIC STC ¹⁾					
Power Level	575	580	585	590	595
Nominal power Watt P _{max} (Wp)	575	580	585	590	595
Maximum power voltage $V_{mpp}(V)$	42.44	42.59	42.77	42.92	43.06
Maximum power current I _{mpp} (A)	13.55	13.62	13.68	13.75	13.82
Open circut voltage V _{oc} (V)	51.28	51.48	51.68	51.88	52.08
Short circut current I _{sc} (A)	14.30	14.36	14.42	14.48	14.54
Module efficiency η(%)	22.26	22.45	22.65	22.84	23.03

Measuring tolerance: ±3%

Rifacial Output-Backside Power Gai	in 575w 2

•					
Power gain	5%	10%	15%	20%	25%
Maximum power P _{max} (Wp)	604	633	662	690	719
Maximum power voltage $V_{mpp}(V)$	42.82	42.82	42.82	42.83	42.83
Open circuit voltage V _∞ (V)	51.20	51.20	51.20	51.30	51.30
Short circuit current I _{sc} (A)	14.74	15.30	15.84	16.41	16.97
Maximum nower current I (Δ)	14 11	14 78	15 46	16.12	16 79

ELECTRICAL CHARACTERISTIC NMOT 2)					
Power Level	575	580	585	590	595
Maximum power P _{max} (Wp)	433	437	441	445	449
Maximum power voltage V _{mpp} (V)	39.73	39.84	39.95	40.06	40.17
Maximum power current I _{mpp} (A)	10.90	10.97	11.04	11.11	11.18
Open circuit voltage V _{oc} (V)	48.70	48.89	49.08	49.27	49.46
Short circuit current I _{sc} (A)	11.55	11.59	11.64	11.69	11.74

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	5400/2400Pa	

MECHANICAL DATA	
Solar cells	N-T0PCon
Number of cells	144 (6x24) pcs
Size of cells	182 x 91 mm
Module dimension	2278 x 1134 x 30 mm
Frame color	BF – Black
Weight	31.2 kg
Glass	Front Glass, 2.0mmAR coated semi-tempered glass
UldSS	Black Glass, 2.0mm glazed semi-tempered glass
Type of frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cables	4 mm ² , Portrait: 300 mm or 1400mm
Connectors	MC4-EV02

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	I
Piece / Box	36
Size of packing	2320 x 1130 x 1270 mm
Weight of packing	1178 kg
Piece / Container (40'HC)	720

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.