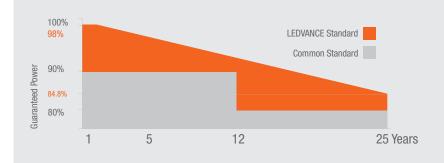


M530~550P72LM-BB-F3

144CELLS HALF-CUT Monocrystalline PERC PV Module Full Black









Power range



Maximum efficiency



Yearly degradation



Excellent Cell Efficiency

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

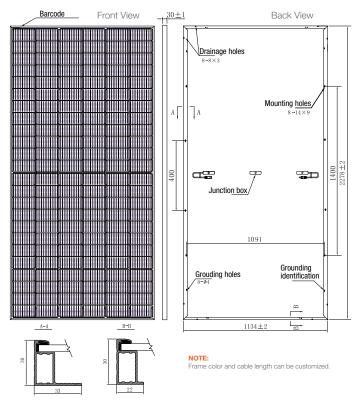




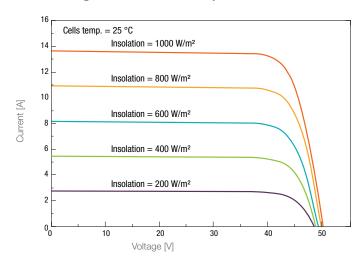
IEC 61215: Design suitability and type approval IEC 61730: Safety qualification IEC 61701: Salt mist corrosion testing IEC 62716: Ammonia corrosion testing IEC 60068: Environmental testing: Dust and sand

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.

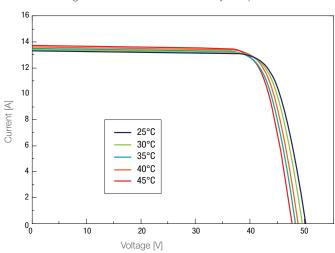
Dimensions of PV module (mm)



Current-voltage curve of the module by different insolation



Current-voltage curve of the PV module by temperature



ELECTRICAL CHARACTERISTIC STC 1)					
Power Level	530	535	540	545	550
Nominal power Watt P _{max} (Wp)	530	535	540	545	550
Maximum power voltage $V_{mpp}(V)$	41.57	41.80	42.03	42.25	42.48
Maximum power current I _{mpp} (A)	12.75	12.80	12.85	12.90	12.95
Open circuit voltage $V_{\text{oc}}(V)$	49.63	49.76	49.89	50.10	50.32
Short circuit current I _{sc} (A)	13.50	13.55	13.60	13.65	13.70
Module efficiency η(%)	20.51	20.71	20.90	21.09	21.29

Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTIC NMOT 2)					
Power Level	530	535	540	545	550
Maximum power P _{max} (Wp)	401	405	409	412	416
Maximum power voltage V _{mpp} (V)	38.45	38.65	38.88	39.02	39.25
Maximum power current I _{mpp} (A)	10.43	10.48	10.52	10.56	10.60
Open circuit voltage V₀c (V)	46.16	46.28	46.40	46.59	46.80
Short circuit current I _{sc} (A)	11.05	11.09	11.13	11.17	11.21

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 PERC
Number of cells	144 (6x24) pcs
Size of cells	182 x 91 mm
Module dimension	2278 x 1134 x 30 mm
Color	BB – full black
Weight	27±1 kg
Glass	3.2 mm tempered glass, anti-reflective coating
Type of frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cables	4 mm ² , 300 mm or 1400 mm
Connectors	Stäubli MC4 EVO 2

TEMPERATURE RATINGS	
NMOT	44±2 °C
Temperature coefficient of P_{max}	-0.35% / °C
Temperature coefficient of V _{oc}	-0.275% / °C
Temperature coefficient of I _{sc}	0.05% / °C

Piece / Box 36 Size of packing 2320 x 1135 x 1255 mm Weight of packing 1022 kg Piece / Container (40'HC) 720	PACKAGING CONFIGURATION	
Weight of packing 1022 kg	Piece / Box	36
	Size of packing	2320 x 1135 x 1255 mm
Piece / Container (40'HC) 720	Weight of packing	1022 kg
	Piece / Container (40'HC)	720

FOOTNOTES:

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