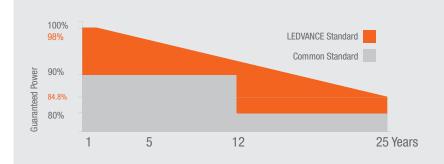


# M540~560P72LM-BF-F7

144 Half-Cut Cells Monocrystalline PERC 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**

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



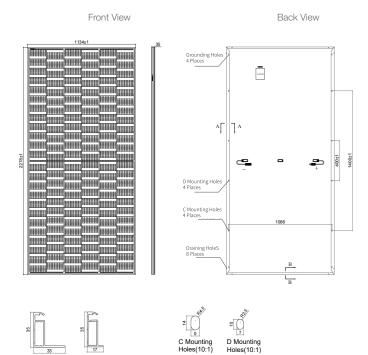


IEC 61215: Design suitability and type approval IEC 61730: Safety qualification IEC 61701: Salt mist corrosion testing IEC 62716: Ammonia corrosion testing IEC 60068: Environmental testing: Dust and sand

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)

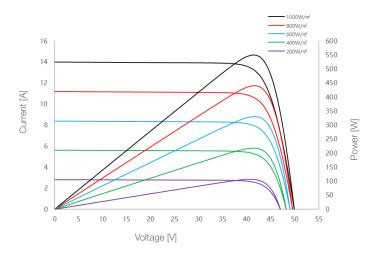
A-A(10:1)



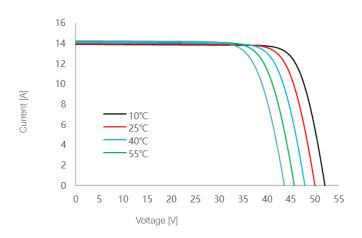
Current/Power-voltage curve of the module by different insolation

NOTE:

Frame color and cable length can be customized.



## Current-voltage curve of the PV module by temperature



ELECTRICAL CHARACTERISTIC   STC 1)					
Power Level	M540P72 LM-BF	M545P72 LM-BF	M550P72 LM-BF	M555P72 LM-BF	M560P72 LM-BF
Nominal power Watt P <sub>max</sub> (Wp)	540	545	550	555	560
Maximum power voltage $V_{mpp}(V)$	41.65	41.81	41.97	42.15	42.33
Maximum power current I <sub>mpp</sub> (A)	12.97	13.04	13.10	13.17	13.23
Open circut voltage V <sub>oc</sub> (V)	49.61	49.76	49.91	50.03	50.15
Short circut current I <sub>sc</sub> (A)	13.85	13.92	14.02	14.07	14.14
Module efficiency η(%)	20.90	21.10	21.30	21.50	21.68

Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTIC   NMOT 2)					
Power Level	540	545	550	555	560
Maximum power P <sub>max</sub> (Wp)	408	412	416	420	424
Maximum power voltage V <sub>mpp</sub> (V)	39.00	39.21	39.44	39.67	39.89
Maximum power current I <sub>mpp</sub> (A)	10.47	10.51	10.55	10.59	10.63
Open circuit voltage V₀c (V)	46.43	46.55	46.68	46.84	46.98
Short circuit current I <sub>sc</sub> (A)	11.10	11.13	11.18	11.22	11.27

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

Mono PERC
144 (6x24) pcs
182 x 91 mm
2278 x 1134 x 35 mm
BF – Black frame
27.5±1 kg
3.2 mm tempered glass, anti-reflective coating
Anodized aluminum alloy
IP68, 3 diodes
4 mm <sup>2</sup> , 1400 mm
Staubli MC4-Evo2

TEMPERATURE RATINGS	
NMOT	45±2 °C
Temperature coefficient of P <sub>max</sub>	-0.335% / °C
Temperature coefficient of V <sub>oc</sub>	-0.265% / °C
Temperature coefficient of I <sub>sc</sub>	+0.045% / °C

PACKAGING CONFIGURATIO	N
Piece / Box	31
Size of packing	2320 x 1130 x 1270 mm
Weight of packing	922.5 kg
Piece / Container (40'HC)	620

#### 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

- 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.