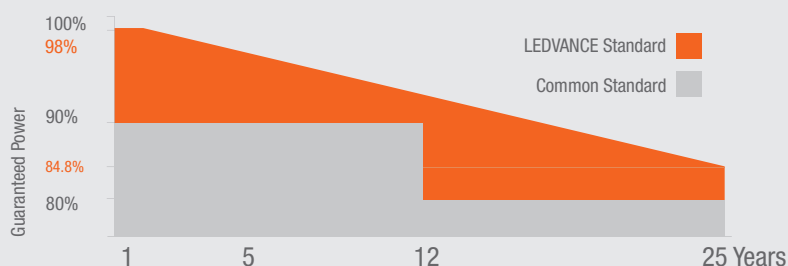


# M540~560P72LM-SF-F7

144 Half-Cut Cells  
Monocrystalline PERC Module  
Silver Frame



**12 YEARS** Product guarantee

**25 YEARS** Linear Power guarantee

**540-560Wp** Power range

**21,68%** Maximum efficiency

**0,55%** Yearly degradation

**10BB** 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**  
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

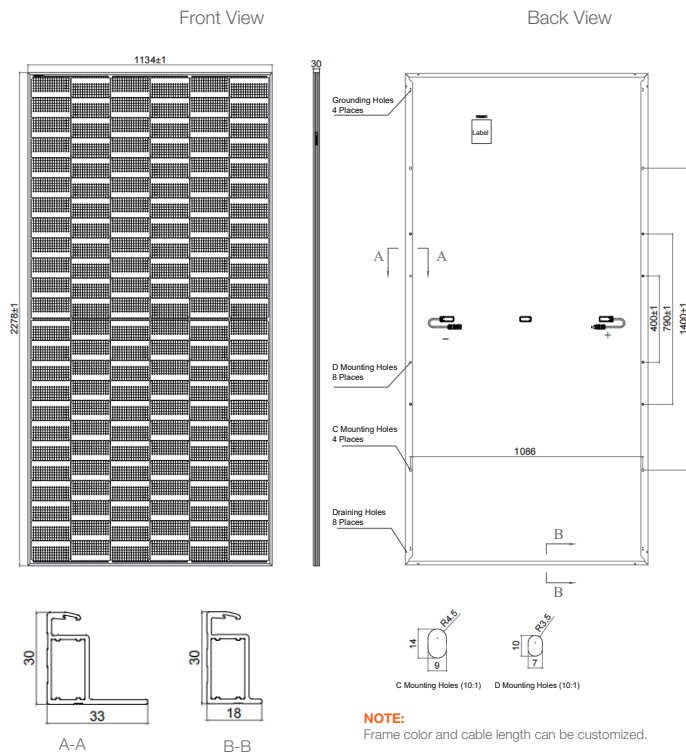
**Highest production standards**  
Guarantees of operational reliability and quality module production go far beyond requirements specified in certificates



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)



### ELECTRICAL CHARACTERISTIC | STC <sup>1)</sup>

Power Level	M540P72 LM-SF	M545P72 LM-SF	M550P72 LM-SF	M555P72 LM-SF	M560P72 LM-SF
Nominal power Watt $P_{max}$ (Wp)	540	545	550	555	560
Maximum power voltage $V_{mpd}$ (V)	41.65	41.81	41.97	42.15	42.33
Maximum power current $I_{mpp}$ (A)	12.97	13.04	13.10	13.17	13.23
Open circuit voltage $V_{oc}$ (V)	49.61	49.76	49.91	50.03	50.15
Short circuit current $I_{sc}$ (A)	13.85	13.92	14.02	14.07	14.14
Module efficiency $\eta$ (%)	20.90	21.10	21.30	21.50	21.68

Measuring tolerance:  $\pm 3\%$

### ELECTRICAL CHARACTERISTIC | NMOT <sup>2)</sup>

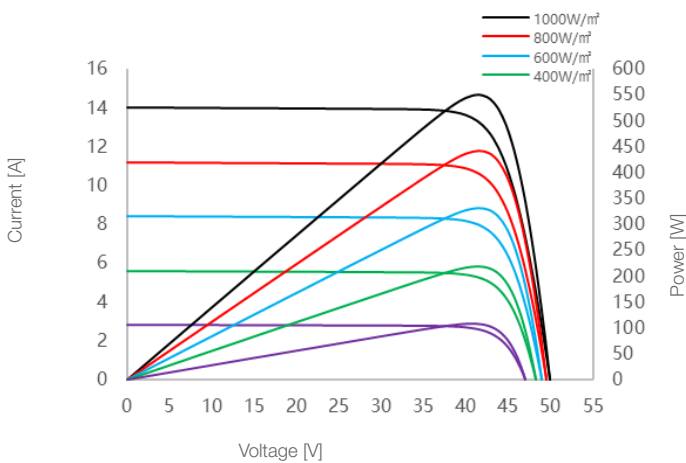
Power Level	540	545	550	555	560
Maximum power $P_{max}$ (Wp)	408	412	416	420	424
Maximum power voltage $V_{mpd}$ (V)	39.00	39.21	39.44	39.67	39.89
Maximum power current $I_{mpp}$ (A)	10.47	10.51	10.55	10.59	10.63
Open circuit voltage $V_{oc}$ (V)	46.43	46.55	46.68	46.84	46.98
Short circuit current $I_{sc}$ (A)	11.10	11.13	11.18	11.22	11.27

Measuring tolerance:  $\pm 3\%$

### 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

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



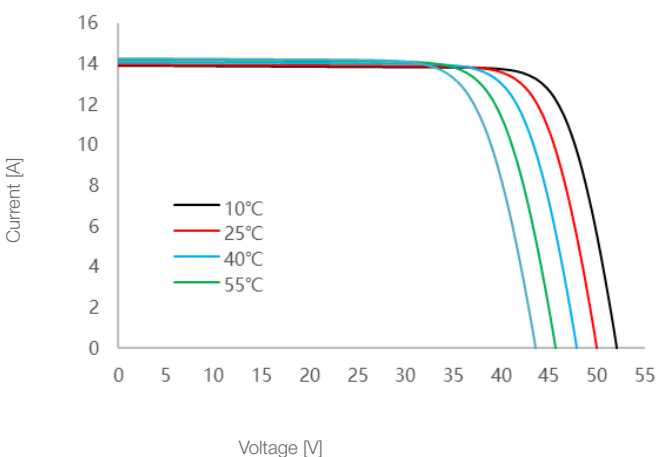
### MECHANICAL DATA

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	BF – Black frame
Weight	27.5±1 kg
Glass	3.2 mm tempered glass, anti-reflective coating
Type of frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cables	4 mm², 300 mm(with connectors) or Customized Length
Connectors	Staubli MC4-Evo2

### TEMPERATURE RATINGS

NMOT	45±2 °C
Temperature coefficient of $P_{max}$	-0.335% / °C
Temperature coefficient of $V_{oc}$	-0.265% / °C
Temperature coefficient of $I_{sc}$	+0.045% / °C

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



### PACKAGING CONFIGURATION

Piece / Box	36
Size of packing	2320 x 1130 x 1270 mm
Weight of packing	1060 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.