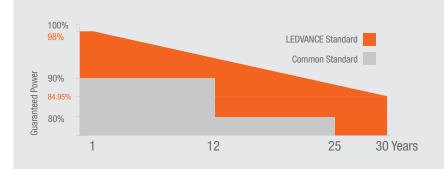


M585~605P60UB-SF-F3

120CELLS HALF-CUT Mono PERC Bifacial PV Module Silver Frame





Product guarantee





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

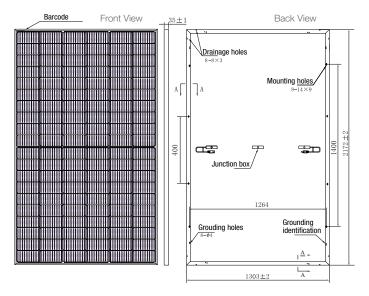




IEC 61215: Design suitability and type approval IEC 61730: Safety qualification IEC 61701: Salt mist corrosion testing IEC 62716: Ammonia corrosion testing IEC 62716: Ammonia corrosion testing IEC 60068: Environmental testing: Dust and sand

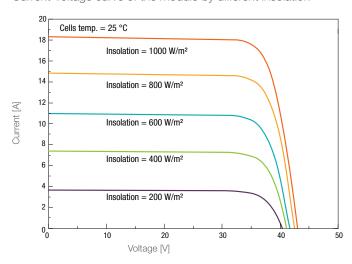
With subsidiaries in more than 50 countries and business activities in over 150 countries, LEDVANCE is committed to supplying reliable and durable PV products to customers to create together a greener planet.

Dimensions of PV module (mm)

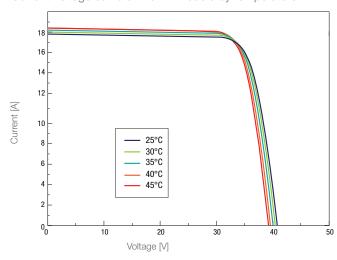




Current-voltage curve of the module by different insolation



Current-voltage curve of the PV module by temperature



ELECTRICAL CHARACTERISTIC STC 1)					
Power Level	585	590	595	600	605
Nominal power Watt P _{max} (Wp)	585	590	595	600	605
Maximum power voltage V _{mpp} (V)	34.02	34.21	34.40	34.59	34.80
Maximum power current I _{mpp} (A)	17.20	17.25	17.30	17.35	17.39
Open circut voltage V _{oc} (V)	41.12	41.31	41.50	41.69	41.90
Short circut current I _{sc} (A)	18.25	18.30	18.35	18.40	18.44
Module efficiency n(%)	20.67	20.84	21.02	21.20	21.37

Bifacial Output-Backside Power Gain

10%	Maximum power P _{max} (Wp)	643	649	654	660	665
10%	Module efficiency η(%)	22.72	22.93	23.11	23.32	23.50
20%	Maximum power P _{max} (Wp)	702	708	714	720	726
20%	Module efficiency η(%)	24.80	25.02	25.23	25.44	25.65

ELECTRICAL CHARACTERISTIC NMOT 2)					
Power Level	585	590	595	600	605
Maximum power P _{max} (Wp)	443	447	451	454	458
Maximum power voltage V _{mpp} (V)	31.49	31.66	31.86	31.98	32.19
Maximum power current I _{mpp} (A)	14.07	14.12	14.16	14.20	14.23
Open circuit voltage V _{oc} (V)	38.24	38.42	38.60	38.77	38.97
Short circuit current I _{sc} (A)	14.93	14.97	15.02	15.06	15.09

Measuring tolerance: ±3%

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 side load	5400 pa / 2400 pa

MECHANICAL DATA	
Solar cells	Mono PERC
Number of cells	120 (6x20) pcs
Size of cells	210 x 105 mm
Module dimension	2172 x 1303 x 35 mm
Frame color	SF – silver
Weight	35±1 kg
Glass	2.0 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 EV0 2

TEMPERATURE RATINGS

NMOT	44±2 °C
Temperature coefficient of P _{max}	-0.34% / °C
Temperature coefficient of V _{oc}	-0.25% / °C
Temperature coefficient of I _{sc}	0.04% / °C

PACKAGING CONFIGURATION	V
Piece / Box	31
Size of packing	1350 x 1130 x 2300 mm
Weight of packing	1145 kg
Piece / Container (40'HC)	558

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.