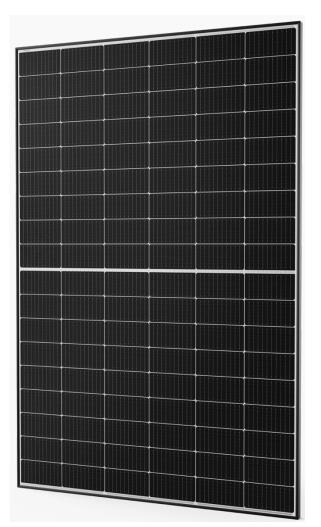
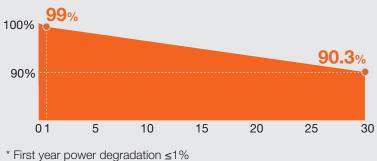
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M500-520H54RB-BF

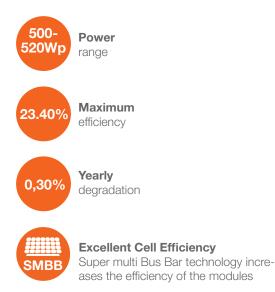
108 CELLS HALF-CUT Bifacial N-HJT PV Module Black Frame



* Anual power degradation(2-30 year) $\leq 0.3\%$

* Power output until the 30th year ≥90.3%





PHD

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



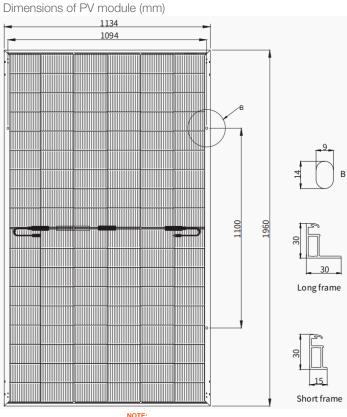
Highest production standards

Guarantees of operational reliability and quality module implementations go far beyond requirements specified in certificates



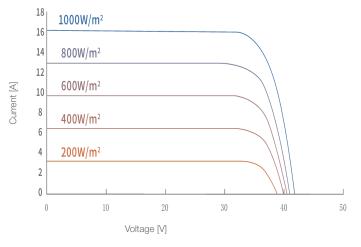
IEC 61215: Design suitability and type approval IEC 61730: Safety qualification IEC 61701: Salt mist corrosion testing IEC 62716: Ammonia corrosion testing IEC 60068: Environmental testing: Dust and sand

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.

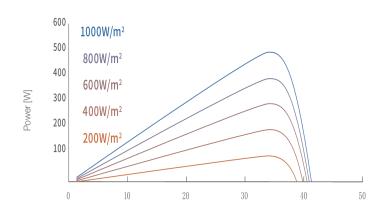


NOTE: Frame color and cable length can be customized.

Current-voltage curve of the module by different insolation



Power-voltage curve of the PV module by different insolation



ower Level	500	505	510	515	520
Nominal power Watt P _{max} (Wp)	500	505	510	515	520
Maximum power voltage V _{mpp} (V)	34.16	34.27	34.38	34.49	34.60
Maximum power current I _{mpp} (A)	14.64	14.74	14.84	14.94	15.04
Open circut voltage V _{oc} (V)	40.76	40.87	40.98	41.09	41.20
Short circut current I _{sc} (A)	15.48	15.59	15.70	15.81	15.92
Module efficiency n(%)	22.50	22.70	22.90	23.20	23.40
fleasuring tolerance: ±3%					
Bifacial Output-Backside Power Ga	iin				
Maximum power (Wp)	560	566	571	577	583
Maximum power voltage V _{mpp} (V)	34.28	34.39	34.50	34.61	34.72
Maximum power current Impp (A)	16.36	16.47	16.58	16.69	16.80
Open circut voltage V _{oc} (V)	40.90	41.01	41.12	41.23	41.34
Short circut current $I_{sc}(A)$	17.36	17.48	17.61	17.73	17.85
	1				
ELECTRICAL CHARACTERISTIC	NMOT ²⁾				
Power Level	500	505	510	515	520
Maximum power P _{max} (Wp)	381	385	389	393	397
Maximum power voltage V _{mpp} (V)	32.63	32.65	32.78	32.93	33.07
Maximum power current I _{mpp} (A)	11.70	11.78	11.86	11.94	12.02
Open circuit voltage V _{oc} (V)	38.90	39.01	39.11	39.22	39.32
Short circuit current Isc (A)	12.37	12.46	12.55	12.64	12.72

WORKING CONDITIONS		
Maximum system voltage	1500 V DC	
Operating temperature	-40°C~+85°C	
Operating humidity	5~85%	
Maximum series fuse	30 A	
Front load / rear load	5400 Pa / 2400 Pa	

MECHANICAL DATA	
	Mara N Ame IIIT
Solar cells	Mono N-type HJT
Number of cells	108 (6x18) pcs
Size of cells	182 x 105 mm
Module dimension	1960 x 1134 x 30 mm
Frame color	BF – black
Weight	27.4±1 kg
Glass	2.0 mm tempered glass, anti-reflective coating, double glass
Type of frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cables	4 mm ² , 1200 mm
Connectors	Staubli MC4 EVO 2

44±2 °C
-0.24% / °C
-0.24% / °C
0.04% / °C

PACKAGING CONFIGURATION	
Piece / Box	36
Size of packing	1982 x 1140 x 1255 mm
Weight of packing	986 kg
Piece / Container (40'HC)	792

FOOTNOTES:

I) 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.

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