



# ML MODULE



**25 YEARS**  
POWER  
WARRANTY



**HIGH**  
EFFICIENCY



**REDUCTION**  
OF SHADING  
LOSSES



**RESISTANCE**  
TO HAIL

**PID**

**RESISTANCE**  
TO PID EFFECT



**EASY**  
MOUNTING



**POLISH**  
MANUFACTURER



SMART FUTURE

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# PHOTOVOLTAIC MODULE

TYPE: ML-S6MF/TI-445-144

SERIES: ML-S6MF/TI-445-144/2257

FAMILY: MOF1000

## MECHANICAL PARAMETERS

Monocrystalline solar cells	144 pcs. front contact, busbar: 5/9/12 pcs., size: 83x166±0.5 mm
Cell color	black
Front cover	tempered glass 3.2mm
Rear cover	tedlar
Encapsulant	EVA
Frame type	Aluminium
Frame height	35±5 mm
Dimensions	1038x2094±5 mm
Weight	24.2±0.5 kg
Junction box	IP 67, konektor MC-4 compatible

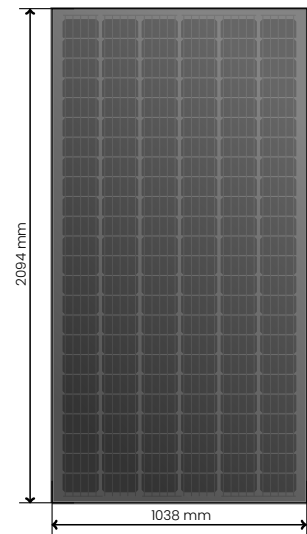
## OPERATING CONDITIONS

Ambient temperature	-45 to 85 °C
Max. load (front/rear)	5400/ 2400 Pa
Hail resistance	hail: 25 mm , 23 m/s, 7.5 g

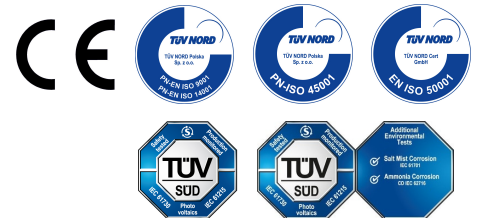
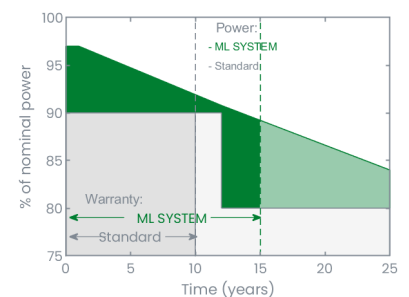
## ELECTRICAL PARAMETERS

MEASURED IN STANDARD TEST CONDITIONS WHERE: IRRADIATION 1000 W/m<sup>2</sup>, AM1.5, TEMPERATURE 25°C, ELECTRICAL PARAMETER TOLERANCE ±3%, POSITIVE POWER TOLERANCE 3%

Rated power	P <sub>MPP</sub>	445 W
Module efficiency	η <sub>module</sub>	20.5 %
Rated voltage	V <sub>MPP</sub>	40.9 V
Open circuit voltage	V <sub>OC</sub>	49.7 V
Rated current	I <sub>MPP</sub>	10.89 A
Short circuit current	I <sub>SC</sub>	11.45 A
Fill factor	FF	78.3 %
System voltage	V <sub>sys</sub>	1500 V
Overcurrent protection	OCP	16 A
Current temperature coefficient	TCI	0.05 %/°C
Voltage temperature coefficient	TCV	-0.29 %/°C
Power temperature coefficient	TCP	-0.34 %/°C
Protection class	class II (application class A)	
Compliance with standards	IEC 61215 IEC 62716 IEC 62804	IEC 61730 IEC 61701
Factory quality certificates	ISO 9001 ISO 50001	ISO 14001 ISO 45001
LID	<3%	
Power warranty	linear, 25 lat - 83 %	
Product warranty	15 years	



Power warranty



Due to continual product improvement ML SYSTEM S.A. reserves the right to change the product characteristics without prior notice.