

Ultra Back Contact N-type

450 - 460W

› Double Glass



Module efficiency

Module efficiency up to 23.10 %



Elegant design

Cells free from frontal metallization



Sustainable product

High percentage of recyclable materials



High reliability

Certified resistance against PID, salt mist and ammonia



Better temperature coefficient

Minimized thermal losses, improved efficiency



Easy to handle

Comfortable installation thanks to an optimized area size

25

Years

Product Warranty

+5 years for Premium Partners

30

Years

Performance Warranty

Linear Warranty

1% First year degradation

0.35% Annual degradation

88.85% Power in year 30

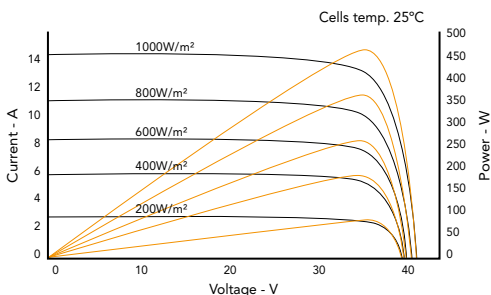
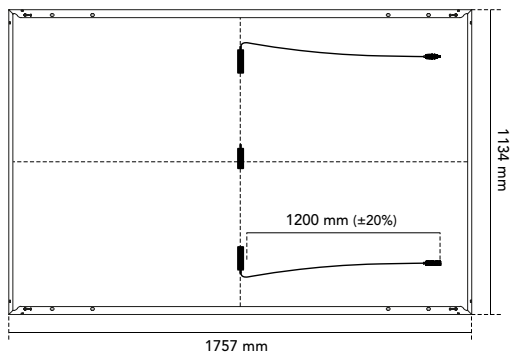
Light up your world with Eurener

Eurener's extensive portfolio of certifications and awards is testament to our unwavering commitment to our partners and our deep sense of social and ethical responsibility.





Eurener MEPV — ULTRA Double Glass 450-460W



Mechanical Specification	
Solar cells	N-Type monocrystalline silicon cells
Front Glass	2mm anti-reflective surface tempered solar glass
Back Glass	2mm tempered solar glass
Frame	Black anodized aluminium
Junction Box	IP68, 3 by-pass diodes
Connector	Original MC4-Evo 2
Cable	1200 mm (±20%) length and 4 mm ² section
Dimension	1757 x 1134 x 30 mm (±1%)
Area	1.99 m ²
Weight	24.5 kg
Packaging	936 pcs/truck

Temperature Coefficients	
Temperature coefficient of Isc (α)	0.05 %/°C
Temperature coefficient of Voc (β)	-0.22 %/°C
Temperature coefficient of Pmax (γ)	-0.26 %/°C
Temperature range	-40 °C ~ +85 °C
Nominal operating cell temperature (NOCT)	45 ± 2 °C

	MEPV 450	MEPV 455	MEPV 460
Electrical Characteristics			
STC			
Nominal power. Pmax	450 Wp	455 Wp	460 Wp
Short-circuit current (Isc)	14.03 A	14.11 A	14.26 A
Open-circuit voltage (Voc)	40.82 V	40.86 V	41.16 V
Maximum power current (Imp)	13.33 A	13.42 A	13.53 A
Maximum power voltage (Vmp)	33.77 V	33.93 V	34.01 V
Module efficiency	22.60 %	22.85 %	23.10 %
Electrical Characteristics			
NOCT			
Nominal power. Pmax	339 Wp	343 Wp	346 Wp
Short-circuit current (Isc)	11.39 A	11.47 A	11.54 A
Open-circuit voltage (Voc)	38.63 V	38.72 V	38.89 V
Maximum power current (Imp)	10.60 A	10.70 A	10.81 A
Maximum power voltage (Vmp)	32.00 V	32.08 V	32.09 V

* STC: 1000 W/m², module temperature 25°C, AM 1.5
 * NOCT: 800 W/m², ambient temperature 20°C, AM 1.5

Operating parameters	
Maximum voltage	1500 V
Maximum series fuse rating. Ir	25 A
Power output tolerance	0 - +3%
Voc and Isc tolerance	±3%
Fire rating	Class C (UL 790)
Protection class	Class II (IEC 61140)
Mechanical loads	Front load 5400 Pa, Back load 2400 Pa

Corporate and product certificates
ECOVADIS rating - Platinum medal (TOP 1%)
Solar Industry Forced Labor Prevention Pledge by SEIA
ISO9001:2015 - Quality Management Systems
ISO14001:2015 - Environmental Management System
WEEE compliance in Germany
PV CYCLE Italy
IEC 61215 - Terrestrial photovoltaic (PV) modules - Design qualification and type approval
IEC 61730 - Photovoltaic (PV) module safety qualification
IEC 61701 - Photovoltaic (PV) modules - Salt mist corrosion testing
IEC 62716 - Photovoltaic (PV) modules - Ammonia corrosion testing
IEC TS 62804 - Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation
Hail resistance HW3/RG3
Certificate of Factory Production Control (UK) - MCS
Fire reaction class: 1 - LAPI



NOTE: Read the safety and installation manual before using the product. This data sheet is not legally binding, Eurener reserves the right of final interpretation. Eurener reserves the right to change the product characteristics and/or specifications without prior notice. The latest versions of all documents can always be found on our website at www.eurener.com.

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European Experts in Residential modules

Since 1997 our main purpose has been to supply quality and long-lasting photovoltaic modules that allow us and future generations, to continue generating clean energy to take care of our planet.