

- + POWERFUL N-TYPE TOPCON CELLS
- + DOUBLE GLASS: HIGHER MECHANICAL AND THERMAL STABILITY
- + HIGH FRONT-SIDE EFFICIENCY FOR CONSISTENT PERFORMANCE
- + REDUCTION OF BALANCE-OF-SYSTEM-COSTS THROUGH HIGHER PERFORMANCE PER MODULE
- + ECONOMICAL AND ROBUST MODULE DESIGN



product guarantee<sup>1</sup>



linear performance guarantee<sup>1</sup>



**ECO LINE CLASSIC 455-475W**  
**TOPCON BLACK WHITE**

GLASS-GLASS, 1762MM X 1134MM



Longlife tested



Power proofed



Safety provided



Selection of components



Back glass



Performance surplus of 0 Wp to 6.49 Wp



Higher heat dispensing



PID free LID Free



German warrantor

# ECO LINE CLASSIC 455-475W

## TOPCON, GLAS-GLAS, BW, 182R-96+

Module type LX - XXXM/182R-96+ GG | XXX = Rated power Pmpp

### Electrical data at STC

Rated power Pmpp [Wp]	455.00	460.00	465.00	470.00	475.00
Pmpp range to	461.49	466.49	471.49	476.49	481.49
Rated current Imp [A]	15.27	15.37	15.46	15.55	15.64
Rated voltage Vmpp [V]	29.82	29.96	30.10	30.24	30.39
Short-circuit current Isc [A]	16.14	16.25	16.34	16.44	16.53
Open-circuit voltage Uoc [V]	36.10	36.27	36.44	36.61	36.79
Efficiency at STC up to	23.10%	23.35%	23.60%	23.85%	24.10%
Efficiency at 200 W/m <sup>2</sup>	22.55%	22.80%	23.04%	23.28%	23.54%

### Electrical data at NOCT

Power at Pmpp [Wp]	342.89	346.66	350.42	354.19	357.96
Rated current Imp [A]	12.33	12.41	12.48	12.55	12.62
Rated voltage Vmpp [V]	27.81	27.93	28.08	28.22	28.36
Short-circuit current Isc [A]	13.03	13.12	13.19	13.27	13.34
Open-circuit voltage Uoc [V]	33.32	33.49	33.66	33.82	34.00

Specification as per STC (Standard test conditions): irradiance 1000 W/m<sup>2</sup> | module temperature 25°C | Air Mass = 1.5  
 NOCT (nominal operating cell temperature): irradiance 800 W/m<sup>2</sup> | wind speed 1 m/sec | ambient temperature 20°C |  
 cell operating temperature 45 +/- 2°C | Air Mass = 1.5

### Limiting values

Max. system voltage   max. return current	1000 V or 1500 V   30 A
Safety class   Fire safety class	II   C (IEC 61730)
Operating temperature	-40 up to 85°C
Max. tested pressure/tensile load <sup>2</sup>	5400 Pa / 2400 Pa

### Temperature coefficient

Temperature coefficient [U]   [I]   [P]	-0.25 %/°C   0.045 %/°C   -0.29 %/°C
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### Specifications

Cells (matrix)   Wafer   Type	96 (6x16)   M10   N-Type TOPCon
Module dimensions (L x W x H)3   Weight	1762 mm x 1134 mm x 30 mm   23.7 kg
Front side	2.0 mm semi tempered anti-reflection solar glass
Back side	2.0 mm semi tempered solar glass, white
Frame	Stable anodised aluminium frame
Embedding material	POE / EVA
Junction Box	IP68
Diodes	3 Schottky Diodes
Cable	Symmetrical cable lengths > 1.1 m, 4 mm <sup>2</sup> solar cable
Connectors	MC4 or equivalent (IP67)
Hail test (max. hailstorm)	∅ 25 mm   impact velocity 23 m/s ± 83 km/h

The specifications and average values can vary slightly.

Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice.

Measurement tolerance depending on equipment: rated power +/- 3%, other values +/- 10%.

All information given in this data sheet corresponds to DIN EN 50380. A potential light-induced degradation of the power after commissioning is not considered here.

Further information in the installation manuals.

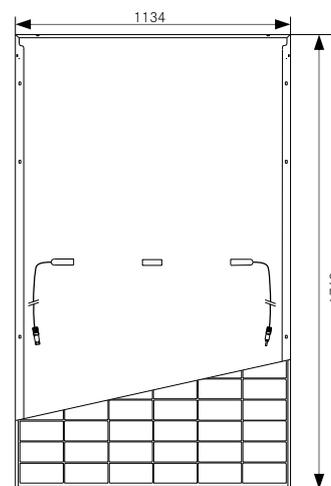
1 The specific warranty conditions are given under

2 Horizontal mounted (IEC61215), for details please check

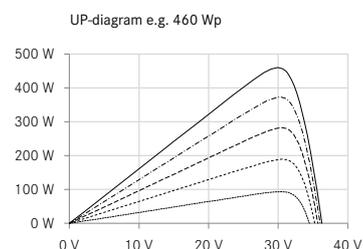
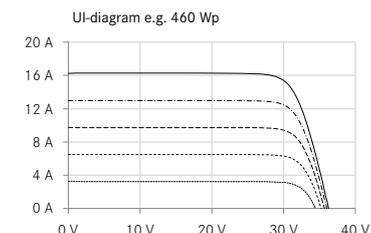
3 Tolerance L/W = +/- 3 mm, H +/- 2 mm, the dimensions

4 Location and dimensions of holes on request

### Back - / Frontview 3, 4



### Electrical characteristics



----- 200W/m<sup>2</sup>  
 - - - - - 400W/m<sup>2</sup>  
 . . . . . 600W/m<sup>2</sup>  
 - - - - - 800W/m<sup>2</sup>  
 \_\_\_\_\_ 1000W/m<sup>2</sup>



Guidelines:

93/68/EEC

2014/35/EU, (LVD)

2014/30/EU, (EMC)

The validity of the certificates/listings for a specific country has to be examined under: [www.luxor.solar/downloads.html](http://www.luxor.solar/downloads.html)

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