

# Luxra®

PURE  
ENERGY



## LOW REFLECTION

Suitable for applications with severe Glare requirements (e.g. next to roads or airports and residential complexes)



## HIGHEST PERFORMANCE

Excellent N-type TOPCon bifacial cell efficiency for output up to maximum performance of 450 Wp available.



## LIGHT WEIGHT

Low module weight with double glass for maximum high static load on front side and high hail resistance.



## DESIGN AND SECURITY

Elegant black framework and all black design, together with double glass for technical security. Reliable for your free clean energy.

RESIDENTIAL NEW GENERATION HIGH POWER

**LUXRA® PURE MODULE LX-450N**

# THE POWERFUL AND RELIABLE SOLAR MODULE FOR MULTI-APPLICATION SOLUTIONS



Performance Guarantee  
30 years linear power  
output warranty



Product Warranty  
30 years limited warranty on  
product quality



[WWW.LUXRA.CH](http://WWW.LUXRA.CH)

**22.5%**

MODULE EFFICIENCY

**0-3%**

POWER TOLERANCE

**<2%**

FIRST YEAR POWER DEGRADATION

**0.4%**

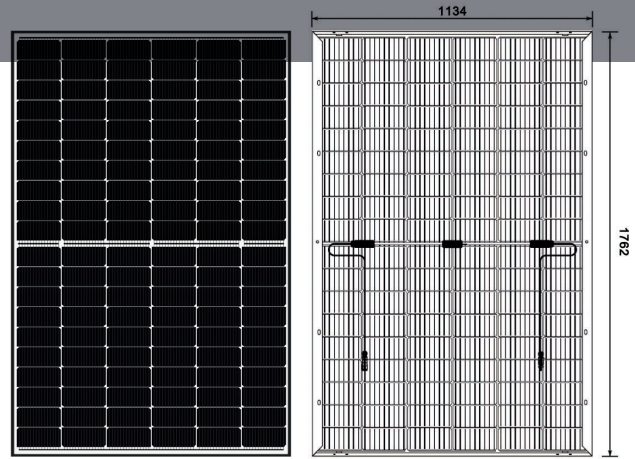
YEAR 2-30 POWER DEGRADATION

**INNOVATION SMBB & HALF CUT CELLS**

LOWER OPERATION TEMPERATURE

**ELECTRICAL DATA AT STC\***

Peak Power (Pmax)	(W)	450
Maximum Power Voltage (Vmp)	(V)	33,07
Maximum Power Current (Imp)	(A)	13,61
Open-circuit Voltage (Voc)	(V)	39,73
Short-circuit Current (Isc)	(A)	14,22
Module Efficiency	(%)	22,54
Operating Temperature		- 40° ~ + 85° C
Maximum System Voltage		1500V
Maximum Series Fuse Rating		25A
Power Tolerance		0~+3%
Mechanical Test Load		Front - 5400Pa - Rear - 2400Pa



\*STC (Standard Test Condition): Irradiance 1000W/ m2, Module Temperature 25° C, AM 1.5

**ELECTRICAL DATA AT NMOT\***

Peak Power (Pmax)	(W)	339
Maximum Power Voltage (Vmp)	(V)	30,82
Maximum Power Current (Imp)	(A)	11
Open-circuit Voltage (Voc)	(V)	37,64
Short-circuit Current (Isc)	(A)	11,48

\*NMOT (Under Nominal Module Operating Temperature), Irradiance of 800W/ m2, Spectrum AM 1.5, Ambient Temperature 20°, Wind Speed 1m/s

**TEMPERATURE CHARACTERISTICS**

Temperature coefficient of Pmax	- 0,29%/k
Temperature coefficient of Pvo	- 0,25%/k
Temperature coefficient of Isc	0,04%/k
NMOT	43 ± 2° C

**MECHANICAL DATA**

Cell Type	Mono-Crystalline N-TYPE TOPCon
Cell Arrangement	108pcs (2(6x9))
Dimensions (LxWxH)	1762 x 1134 x 30 mm 1,99 m <sup>2</sup>
Weight	22,5 kg
Front Cover	1.6 mm high transmittance, AR coated tempered glass
Back Cover	1.6 mm high transmittance, heat strengthened glass
Frame	Black coated Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm <sup>2</sup>
Length of Cable	1000 mm
Connector	Original MC4 PV Connector

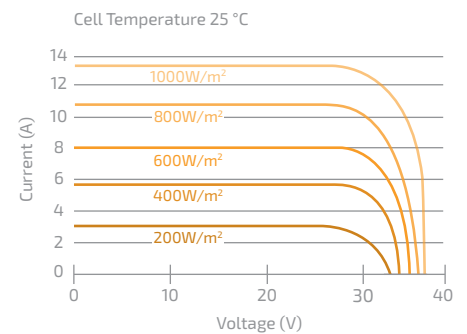
**PACKAGING**

Packing Type	40 ft HQ
Piece/ Pallet	36
Piece/ Container	936

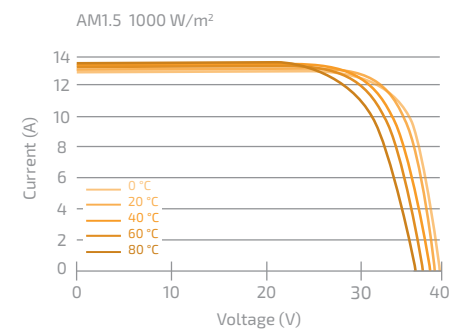
**WARRANTY**

Product Material & Workmanship	30 years
Linear Performance Warranty	30 years

**CURRENT - VOLTAGE CURVE UNDER DIFFERENT IRRADIANCE**



**CURRENT - VOLTAGE CURVE UNDER DIFFERENT WORKING TEMPERATURES**



IV Curves for Front-Side Illumination of 450 Wp Panel

**LINEAR PERFORMANCE WARRANTY**

