

**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 580 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

Designed for technical security and enhanced reliability. Module size maximizes your return on investment.

INDUSTRIAL RELIABLE VERY HIGH POWER

LUXRA[®] PURE MODULE LX-580N

THE POWERFUL AND RELIABLE SOLAR MODULE FOR MULTI-APPLICATION SOLUTIONS



Inherent defect coverage
for certified panels with
inline-quality inspection



Performance Guarantee
30 years linear power
output warranty



Product Warranty
30 years limited warranty on
product quality



WWW.LUXRA.CH

22.53%

MODULE
EFFICIENCY

0-3%

POWER
TOLERANCE

<2%

FIRST YEAR
POWER DEGRADATION

0.4%

YEAR 2-30
POWER DEGRADATIONINNOVATION SMBB
& HALF CUT CELLS

LOWER OPERATION TEMPERATURE

ELECTRICAL DATA AT STC*

		LX-580	LX-585	LX-590
Peak Power (Pmax)	(W)	580	585	590
Maximum Power Voltage (Vmp)	(V)	42,87	43,05	43,23
Maximum Power Current (Imp)	(A)	13,53	13,59	13,65
Open-circuit Voltage (Voc)	(V)	51,43	51,63	51,82
Short-circuit Current (Isc)	(A)	14,30	14,36	14,42
Module Efficiency	(%)	22,50	22,60	22,80
Operating Temperature		- 40° ~ + 85° C		
Maximum System Voltage		1500V		
Maximum Series Fuse Rating		30A		
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*

		LX-580	LX-585	LX-590
Peak Power (Pmax)	(W)	439	443	447
Maximum Power Voltage (Vmp)	(V)	40,28	40,43	40,58
Maximum Power Current (Imp)	(A)	10,90	10,98	11,02
Open-circuit Voltage (Voc)	(V)	49,02	49,21	49,40
Short-circuit Current (Isc)	(A)	11,54	11,59	11,63

*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 Voc	- 0,25%/k
Temperature coefficient of Isc	0,045%/k
NMOT	45 ± 2° C

MECHANICAL DATA

Cell Type	Mono-Crystalline N-TYPE TOPCon
Cell Arrangement	144pcs (2(6x12))
Dimensions (LxWxH)	2278 x 1134 x 30 mm
Weight	32,5 kg
Front Cover	2.0 mm high transmittance, AR coated tempered glass
Back Cover	2.0 mm high transmittance, heat strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Type	4mm ²
Length of Cable	1400 mm
Connector	Compatible with MC4 PV Connector

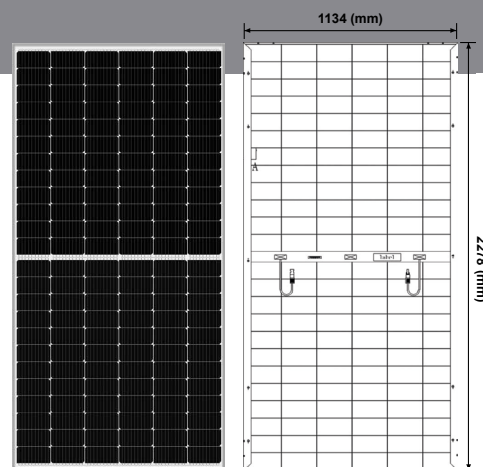
PACKAGING

Packing Type	40 ft HQ
Piece/ Pallet	36
Piece/ Container	720

WARRANTY

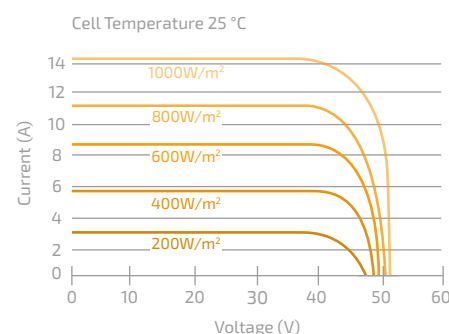
Product Material & Workmanship	30 years
Linear Performance Warranty	30 years

The information contained in these specifications is subject to change without prior notice. Luxra International B.V. reserves the exclusive right to final interpretation of all content.

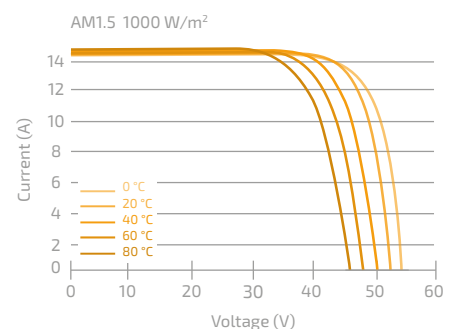


IV Curves for Front-Side Illumination of 580 Wp Panel

CURRENT - VOLTAGE CURVE UNDER DIFFERENT IRRADIANCE



CURRENT - VOLTAGE CURVE UNDER DIFFERENT WORKING TEMPERATURES



LINEAR PERFORMANCE WARRANTY

