

# 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 500 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.

SME RELIABLE VERY HIGH POWER

**LUXRA® PURE MODULE LX-500**

# 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)

**22.9%**

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\***

		LX-500	LX-505	LX-510	LX-515
Peak Power (Pmax)	(W)	500	505	510	515
Maximum Power Voltage (Vmp)	(V)	33,33	33,53	33,73	33,93
Maximum Power Current (Imp)	(A)	15,00	15,06	15,12	15,18
Open-circuit Voltage (Voc)	(V)	40,07	40,32	40,57	40,82
Short-circuit Current (Isc)	(A)	15,9	15,96	16,01	16,07
Module Efficiency	(%)	22,3	22,5	22,7	22,9
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-500	LX-505	LX-510	LX-515
Peak Power (Pmax)	(W)	381	384	389	393
Maximum Power Voltage (Vmp)	(V)	31,32	31,52	31,72	31,92
Maximum Power Current (Imp)	(A)	12,16	12,18	12,26	12,32
Open-circuit Voltage (Voc)	(V)	38,06	38,33	38,6	38,87
Short-circuit Current (Isc)	(A)	12,79	12,81	12,87	12,93

\*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	41 ± 3° C

**MECHANICAL DATA**

Cell Type	Mono-Crystalline N-TYPE TOPCon
Cell Arrangement	108pcs (2(6x9))
Dimensions (LxWxH)	1961 x 1134 x 30 mm
Weight	23,7 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	1200 mm
Connector	Compatible with MC4 PV Connector

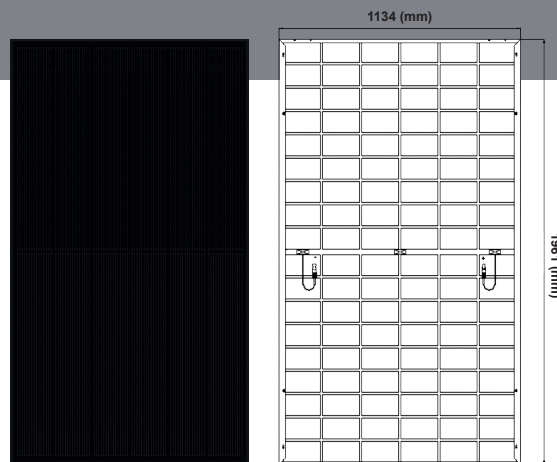
**PACKAGING**

Packing Type	40 ft HQ
Piece/ Pallet	36
Piece/ Container	864

**WARRANTY**

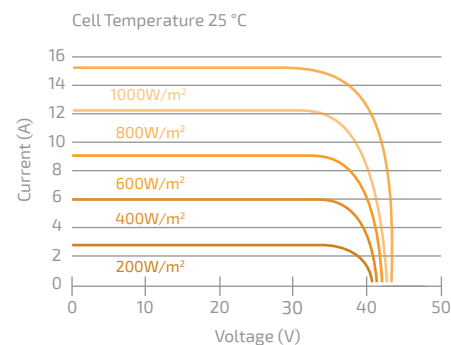
Product Material & Workmanship	30 years
Linear Performance Warranty	30 years 87,4%

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.

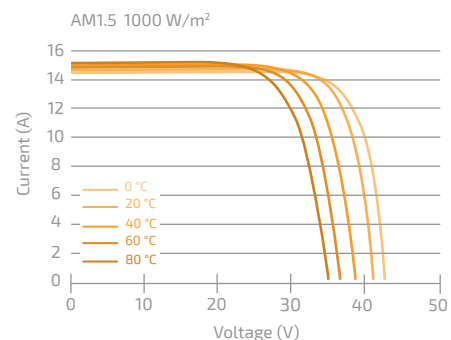


**IV Curves for Front-Side Illumination of 500 Wp Panel**

**CURRENT - VOLTAGE CURVE UNDER DIFFERENT IRRADIANCE**



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



**LINEAR PERFORMANCE WARRANTY**

