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-500N

THE POWERFUL AND RELIABLE SOLAR MODULE FOR MULTI-APPLICATION SOLUTIONS

SOLARIF CERTIFIED

Inherent defect coverage for certified panels with inline-quality inspection

30 YEARS GUARANTEED

Performance Guarantee 30 years linear power output warranty

30 YEARS WARRANTY

Product Warranty 30 years limited warranty on product quality

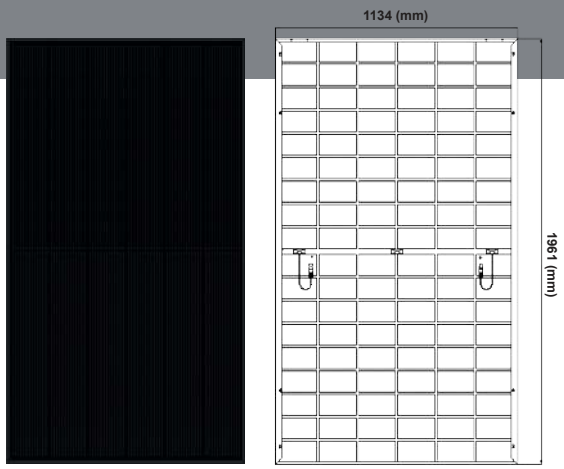
SWISS BRAND

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LUXRA® PURE LX-500N-54HC-BFGG TOPCON SME TECHNICAL DATA

SME - RELIABLE VERY HIGH POWER

22.9%	0-3%	<2%	0.4%	INNOVATION SMBB & HALF CUT CELLS
MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	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	4mm²
Length of Cable	1200 mm
Connector	Compatible with MC4 PV Connector

PACKAGING

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

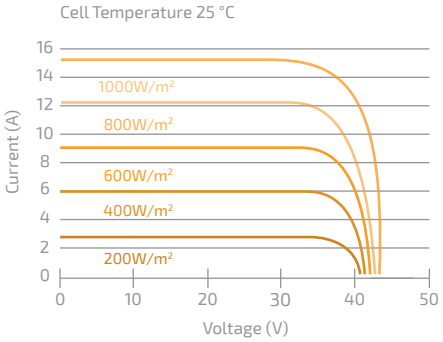
WARRANTY

Product Material & Workmanship	30 years
Linear Performance Warranty	30 years

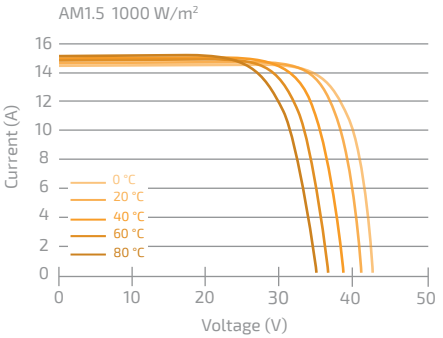
The information contained in these specifications is subject to change without prior notice.
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IV Curves for Front-Side Illumination of 500 Wp Panel

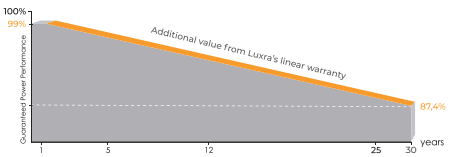
CURRENT - VOLTAGE CURVE UNDER DIFFERENT IRRADIANCE



CURRENT - VOLTAGE CURVE UNDER DIFFERENT WORKING TEMPERATURES



LINEAR PERFORMANCE WARRANTY



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