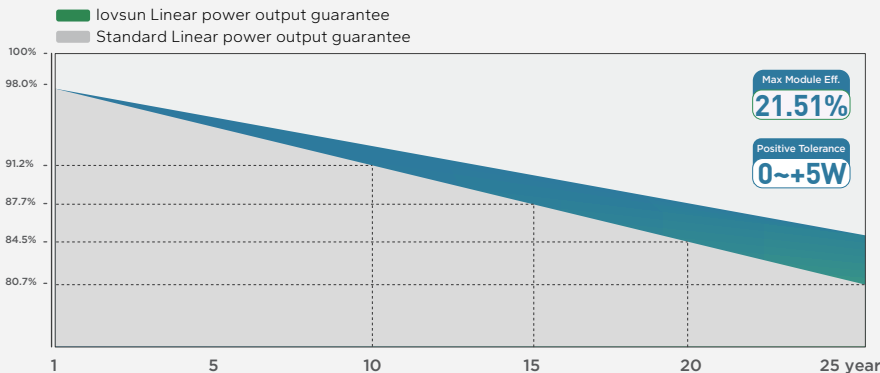
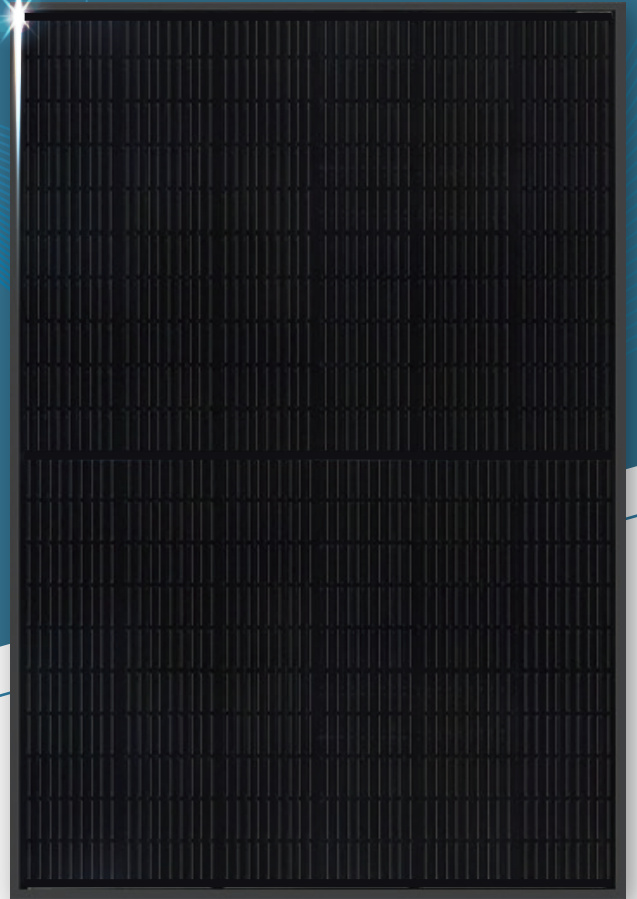


# 400~420W

Higher Output Power  
Low Light Features  
Harsh Environmental

## Quality Guarantee

12-year Warranty for Materials and Processing  
25-year Warranty for Extra Linear Power Output



### Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730  
ISO 9001:2008: ISO Quality Management System  
ISO 14001: 2004: ISO Environment Management System  
OHSAS 18001: 2007 Occupational Health and Safety



\* Specifications subject to technical changes and tests. Solar reserves the right of interpretation.

**Positive power tolerance (0 +5W) guaranteed**

**High module conversion efficiency (up to 21.3%)**

**Slower power degradation** enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

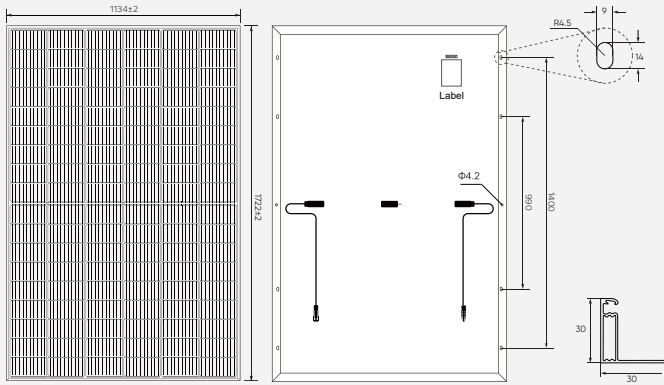
**Reduced resistive loss** with lower operating current

**Higher energy yield** with lower operating temperature

**Reduced hot spot risk** with optimized electrical design and lower operating current



## Design (mm)



\*Units: mm \*Tolerance: ±2mm

<b>Cell Orientation</b>	108 (6x18)
<b>Junction Box</b>	IP68, three diodes
<b>Output Cable</b>	4mm <sup>2</sup> , 300mm in length, length can be customized
<b>Glass</b>	Single glass 3.2mm coated tempered glass
<b>Frame</b>	Anodized aluminum alloy frame
<b>Weight:</b>	20.5kg±3%
<b>Dimension</b>	1722x1134x30mm
<b>Packaging</b>	36pcs per pallet 936pcs per 40'GP

<b>Operational Temperature</b>	-40°C~+85°C
<b>Power Output Tolerance</b>	0~+5W
<b>Voc &amp; Isc Tolerance</b>	±3%
<b>Max. System Voltage</b>	DC1500V(IEC/UL)
<b>Max. Series Fuse Ratin</b>	25A
<b>NOCT</b>	45±2°C
<b>Safety Class</b>	II
<b>Fire Rating</b>	UL type 1 or 2
<b>Max. Static Load(Front)</b>	5400Pa
<b>Max. Static Load(Back)</b>	2400Pa

## Electrical Characteristics

Model Number	LRS182-400W		LRS182-405W		LRS182-410W		LRS182-415W		LRS182-420W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	400	298	405	302	410	306	415	310	420	314
Open Circuit Voltage (Voc/V)	36.98	34.9	37.06	34.98	37.14	35.06	37.22	35.14	37.3	35.22
Short Circuit Current (Isc/A)	13.78	11.13	13.85	11.19	13.92	11.25	13.99	11.31	14.06	11.37
Voltage at Maximum Power (Vmp/V)	30.42	28.42	30.52	28.58	30.62	28.65	30.72	28.9	30.82	29.06
Current at Maximum Power (Imp/A)	13.15	10.49	13.27	10.57	13.39	10.65	13.51	10.73	13.63	10.81
Module Efficiency(%)	20.49		20.75		21		21.26		21.5	
Temperature Coefficient of Isc	+0.04%/°C									
Temperature Coefficient of Voc	-0.25%/°C									
Temperature Coefficient of Pmax	-0.34%/°C									

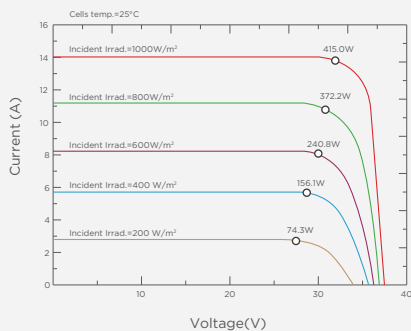
\* STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5

\* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

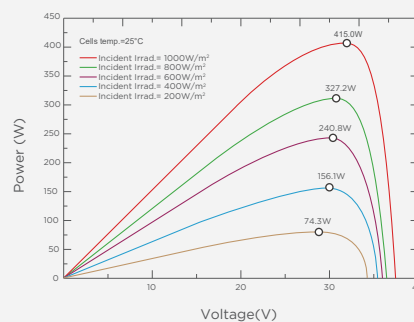
\*Test uncertainty for Pmax: ±3%

## I-V Curve

Current-Voltage Curve(LRS182-420W)



Power-Voltage Curve(LRS182-420W)



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\*CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

\*Specifications included in this datasheet are subject to change without notice.

