

**LTH** series

# 510-530W

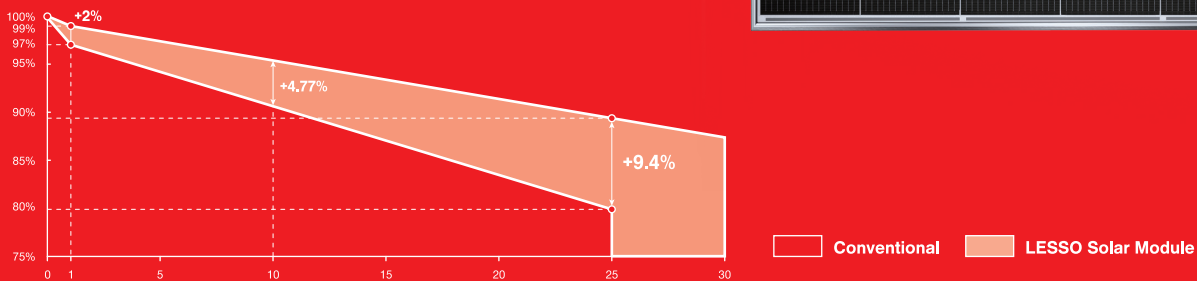
210-48 N-TOPCon  
Dual-glass Bifacial Module



**12** years product workmanship warranty

**30** years linear power output warranty

**1%** 1st-year degradation  
**0.40%** annual degradation



## FEATURES AND BENEFITS



TOPCon technology, higher power generation.



High density packaging, improving energy density.



Even cloudy or foggy days, better weak illumination response.



Zero LID, increase power generation.



Better temperature coefficient, more power generation.



Higher power output, lower bos cost.



Multiple weather, resistance tests, wider applicability.



Double-sided generation, powerfully energy boost.

# LESSO 210 N-TOPCon Dual-glass Bifacial Module (48)



Power Range  
**510W ~ 530W**



Power Output Tolerance  
**0W ~ +5W**

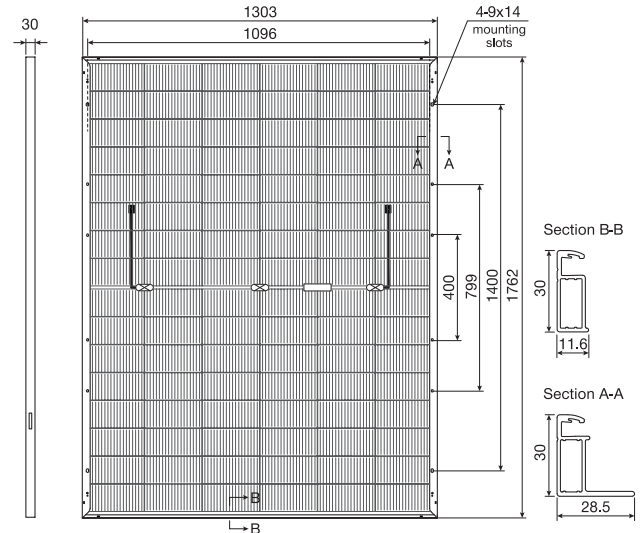


Maximum Efficiency  
**23.08%**

(Unit: mm)

## Structure Performance

Solar Cell Type	210mm N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	96pcs(6x16)
Module Dimension	1762×1303×30mm
Weight	28.8kg
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm <sup>2</sup> , portrait $\frac{400\text{mm}(+)}{200\text{mm}(-)}$ , landscape $\frac{1400\text{mm}(+)}{1400\text{mm}(-)}$ Length can be customized
Diode Quantity	3 pcs
Front side / Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	36pcs
Per Container(40'HQ)	648pcs

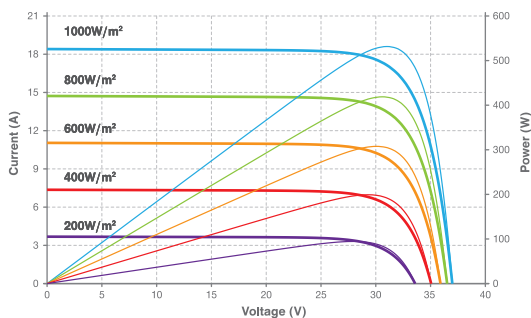


## Electrical Performance Parameters

Model Type		510C(HBD)48(210)	515C(HBD)48(210)	520C(HBD)48(210)	525C(HBD)48(210)	530C(HBD)48(210)
Nominal Max. Power	$P_{MAX}$ (W)	510	515	520	525	530
Max. Power Voltage	$V_{MP}$ (V)	29.18	29.35	29.52	29.69	29.85
Max. Power Current	$I_{MP}$ (A)	17.48	17.55	17.62	17.69	17.76
Open Circuit Voltage	$V_{OC}$ (V)	36.83	37.00	37.18	37.35	37.52
Short Circuit Current	$I_{SC}$ (A)	18.20	18.24	18.28	18.32	18.36
Module Efficiency	(%)	22.21	22.43	22.65	22.87	23.08

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5; Power measurement tolerance ±3%.

## Current-Voltage & Power-Voltage Curve (530W)



## Bifacial Output-rearside Power Gain

Gain	Maximum Power		$P_{MAX}$ (W)	536	541	546	551	557
	Module Efficiency	(%)						
5%	Module Efficiency	(%)	23.32	23.55	23.78	24.01	24.24	
	Module Efficiency	(%)	24.44	24.67	24.91	25.15	25.39	
10%	Maximum Power	$P_{MAX}$ (W)	561	567	572	578	583	
	Module Efficiency	(%)	27.77	28.04	28.31	28.58	28.86	
25%	Maximum Power	$P_{MAX}$ (W)	638	644	650	656	663	
	Module Efficiency	(%)	27.77	28.04	28.31	28.58	28.86	

## Temperature Characteristics

Nominal Module Operating Temperature	44±2°C	Temperature Coefficient ( $V_{OC}$ )	-0.25%
Temperature Coefficient ( $I_{SC}$ )	+0.043%	Temperature Coefficient ( $P_{MAX}$ )	-0.30%

## Maximum Parameters

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	35A