

N series

## 210R N-type Monofacial Module

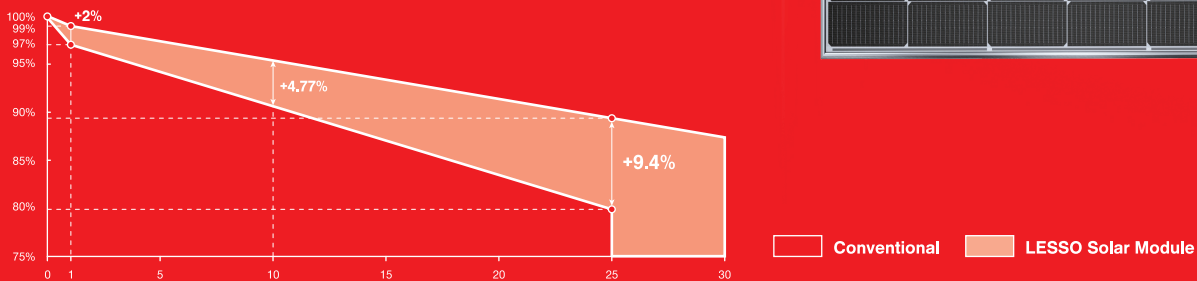
595W ~ 615W



**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.



Better temperature coefficient, more power generation.



Zero LID, increase power generation.



Even cloudy or foggy days, better weak illumination response.



Multiple weather, resistance tests, wider applicability.

# LESSO 210R N-type Monofacial Module (66)



Power Range  
**595W ~ 615W**



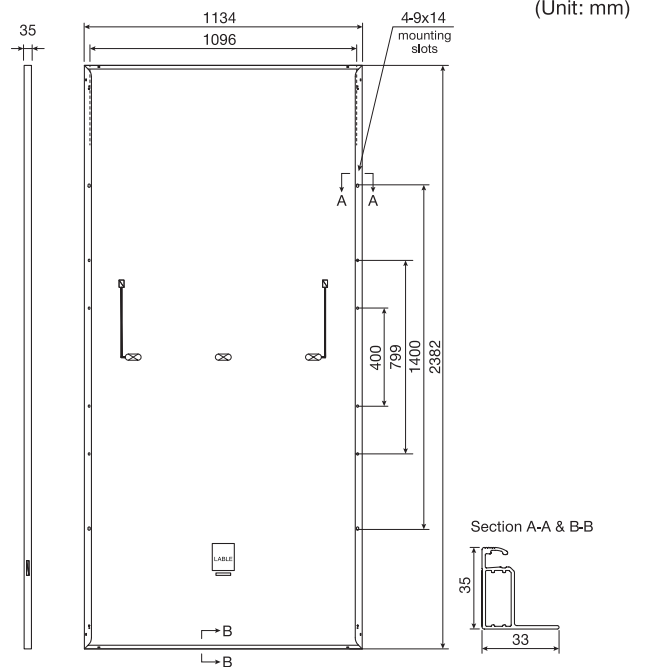
Power Output Tolerance  
**0W ~ +5W**



Maximum Efficiency  
**22.77%**

## Structure Performance

Solar Cell Type	210R N-TOPCon Mono Cell (Half Cell)
Solar Cell Arrangement	132pcs(6×22)
Module Dimension	2384×1134×35mm
Weight	29.7kg
Front Glass	3.2mm, highly transparent tempered glass with anti-reflective coating
Back Sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm <sup>2</sup> , portrait 400mm (+) 230mm (-) , landscape 1400mm (+) 1400mm (-) Length can be customized
Diode Quantity	3 pcs
Front side / Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs
Per Container(40'HQ)	496pcs (horizontal packing) / 620pcs (vertical packing)

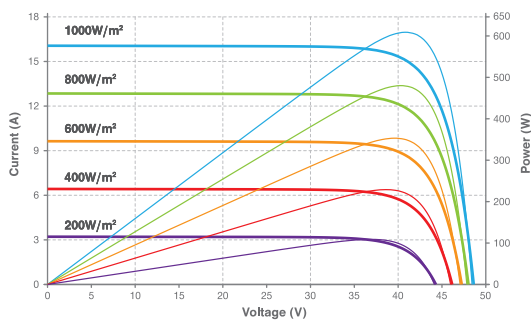


## Electrical Performance Parameters

Model Type	595C(HPM)66(210R)		600C(HPM)66(210R)		605C(HPM)66(210R)		610C(HPM)66(210R)		615C(HPM)66(210R)		
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Nominal Max. Power	$P_{MAX}$ (W)	595	448	600	452	605	456	610	460	615	464
Max. Power Voltage	$V_{MP}$ (V)	40.05	37.43	40.17	37.58	40.30	37.75	40.43	37.90	40.55	38.07
Max. Power Current	$I_{MP}$ (A)	14.86	11.97	14.94	12.03	15.02	12.08	15.09	12.14	15.17	12.19
Open Circuit Voltage	$V_{OC}$ (V)	48.04	45.58	48.17	45.71	48.30	45.83	48.44	45.96	48.57	46.09
Short Circuit Current	$I_{SC}$ (A)	15.71	12.67	15.79	12.75	15.88	12.82	15.97	12.89	16.06	12.96
Module Efficiency	(%)	22.03		22.21		22.40		22.58		22.77	

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5; NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s; Power measurement tolerance ±3%.

## Current-Voltage & Power-Voltage Curve (615C)



## Temperature Characteristics

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

## Maximum Parameters

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