


P series

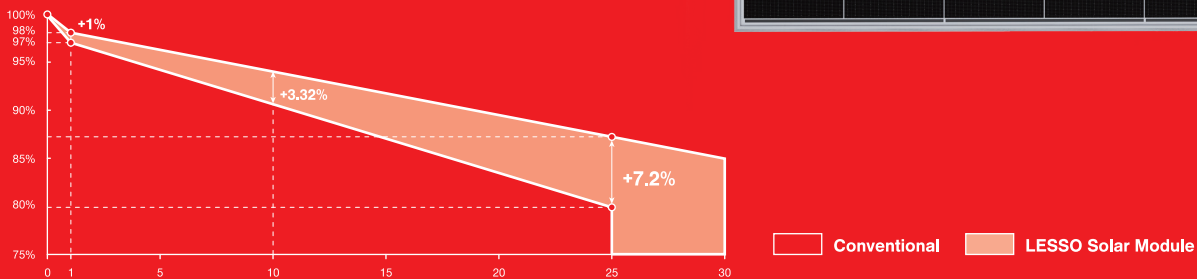
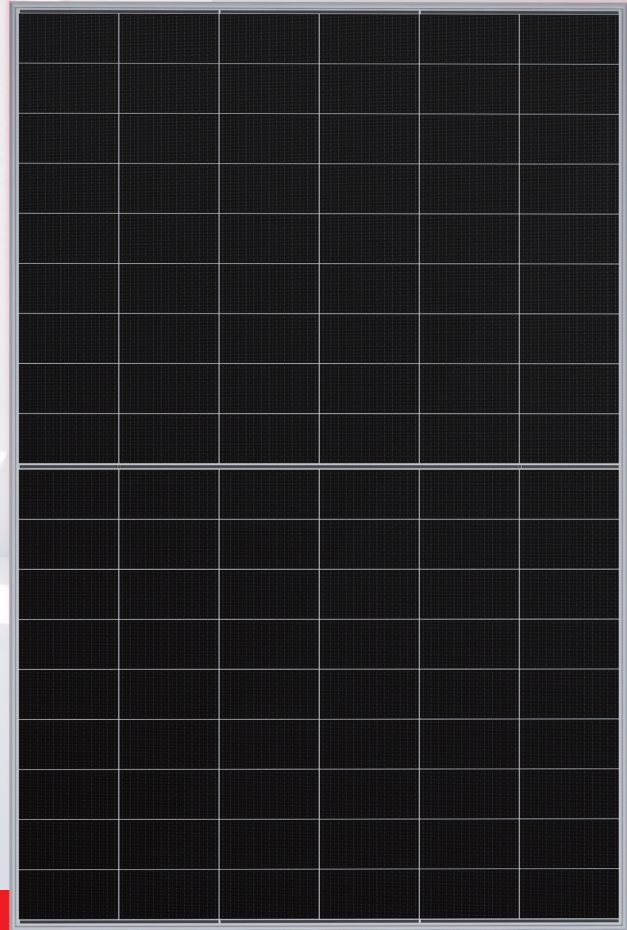
210 P-type Bifacial Module

530W ~ 540W

 **12** years product workmanship warranty

 **30** years linear power output warranty

 **2%** 1st-year degradation
0.45% annual degradation



FEATURES AND BENEFITS



MBB technology reducing string & busbar loss.



Better temperature coefficient, more power generation.



Even cloudy or foggy days, better weak illumination response.



Zero LID, increase power generation.



High efficiency PERC, better resistance against PID.



Higher power output, lower bos cost.



Multiple weather, resistance tests, wider applicability.



Double-sided generation, powerfully energy boost.

LESSO 210 P-type Bifacial Module (54)



Power Range
530W ~ 540W



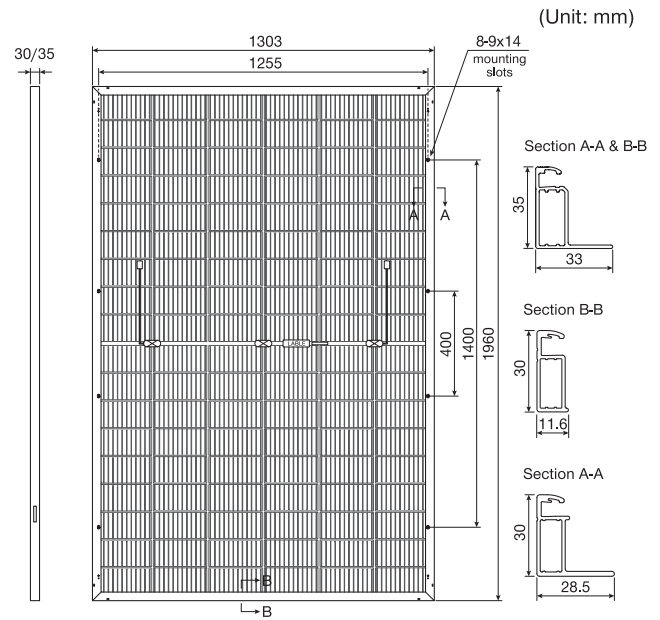
Power Output Tolerance
0W ~ +5W



Maximum Efficiency
21.14%

Structure Performance

Solar Cell Type	210mm Mono-crystalline (Half Cell)
Solar Cell Arrangement	108pcs(6×18)
Module Dimension	1960×1303×35mm/30mm
Weight	32.8kg(35mm) / 31.5kg(30mm)
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , portrait ^{400mm(+)} / _{200mm(-)} , landscape ^{1400mm(+)} / _{1400mm(-)} Length can be customized
Diode Quantity	3 pcs
Front side / Rear side	5400pa / 2400pa
Connector	MC4 Compatible
Per Pallet	31pcs(35mm) / 36pcs(30mm)
Per Container(40'HQ)	527pcs(35mm) / 612pcs(30mm)

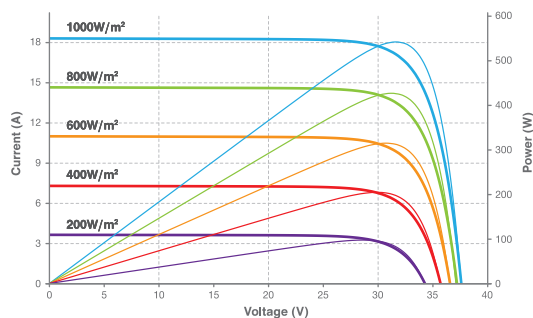


Electrical Performance Parameters

Model Type	530D(HBD)54(210)		535D(HBD)54(210)		540D(HBD)54(210)		
	STC	NMOT	STC	NMOT	STC	NMOT	
Nominal Max. Power	P_{MAX} (W)	530	402	535	406	540	410
Max. Power Voltage	V_{MP} (V)	30.63	28.64	30.83	28.84	31.03	29.04
Max. Power Current	I_{MP} (A)	17.31	14.04	17.36	14.08	17.41	14.12
Open Circuit Voltage	V_{OC} (V)	37.20	34.80	37.40	35.00	37.60	35.20
Short Circuit Current	I_{SC} (A)	18.24	14.72	18.28	14.76	18.32	14.80
Module Efficiency	(%)	20.75		20.95		21.14	

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5; NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s; Power measurement tolerance ±3%.

Current-Voltage & Power-Voltage Curve (540D)



Bifacial Output-rearside Power Gain

Gain	Maximum Power		P_{MAX} (W)	557	562	567
	Module Efficiency	(%)				
5%	Module Efficiency	(%)	21.79%	22.00%	22.20%	
	Maximum Power	P_{MAX} (W)	583	589	594	
10%	Module Efficiency	(%)	22.83%	23.04%	23.26%	
	Maximum Power	P_{MAX} (W)	663	669	675	
25%	Module Efficiency	(%)	25.94%	26.19%	26.43%	

Temperature Characteristics

Nominal Module Operating Temperature	44±2°C	Temperature Coefficient (V_{OC})	-0.26%
Temperature Coefficient (I_{SC})	+0.048%	Temperature Coefficient (P_{MAX})	-0.34%

Maximum Parameters

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A