LESSO 210R N-TOPCon Quarter-cell Dual-glass Bifacial Module(66)

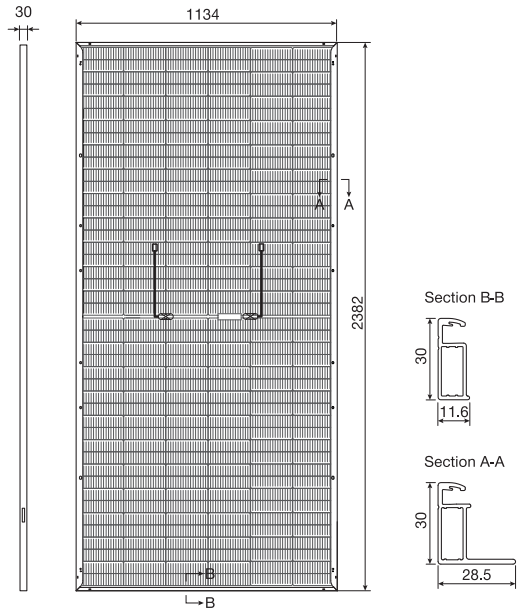
Power Range
645W ~ 665W

Maximum Efficiency
24.62%

(Unit: mm)

Structure Performance

Solar Cell Type	210R N-TOPCon Mono Cell (Quarter Cell)
Solar Cell Arrangement	264pcs(6×44)
Module Dimension	2382×1134×30mm
Weight	32.5kg
Front Glass	2.0mm, highly transparent tempered glass with anti-reflective coating
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm², portrait 400mm (+) / 200mm (−), landscape 1400mm (+) / 1400mm (−) Length can be customized
Diode Quantity	3 pcs
Front side / Rear side	5400pa / 2400pa
Connector	PV-CO02-xy (Suzhou UKT New Energy Technology Co., Ltd.)
Per Pallet	37pcs
Per Container(40'HQ)	740pcs
Fire Rating	Class C



Electrical Performance Parameters

Model Type		645C(QBD)66(210R)	650C(QBD)66(210R)	655C(QBD)66(210R)	660C(QBD)66(210R)	665C(QBD)66(210R)
Nominal Max. Power	P_{MAX} (W)	645	650	655	660	665
Max. Power Voltage	V_{MP} (V)	42.47	42.60	42.73	42.86	42.99
Max. Power Current	I_{MP} (A)	15.17	15.26	15.33	15.40	15.47
Open Circuit Voltage	V_{OC} (V)	49.16	49.34	49.52	49.70	49.88
Short Circuit Current	I_{SC} (A)	15.97	16.03	16.09	16.15	16.21
Module Efficiency	(%)	23.88	24.06	24.25	24.43	24.62

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5; Power measurement tolerance ±3%, Power Selection 0~+ 5W.

Bifacial Nameplate Irradiance I BNPI

Model Type		645C(QBD) 66(210R)	650C(QBD) 66(210R)	655C(QBD) 66(210R)	660C(QBD) 66(210R)	665C(QBD) 66(210R)
Nominal Max. Power	P_{MAX} (W)	711	717	723	728	734
Max. Power Voltage	V_{MP} (V)	42.55	42.69	42.82	42.95	43.08
Max. Power Current	I_{MP} (A)	16.71	16.80	16.89	16.96	17.03
Open Circuit Voltage	V_{OC} (V)	49.15	49.33	49.51	49.69	49.87
Short Circuit Current	I_{SC} (A)	17.63	17.70	17.76	17.83	17.90
BSI	I_{SC} (A)	19.66	19.74	19.80	19.88	19.95
BIFI		0.490	0.498	0.504	0.505	0.509

* BiFi: rear irradiance driven power gain yield.
BNPI: Irradiance Front side 1000W/m² Rear side 135W/m², Ambient Temperature 25°C, Air Mass AM 1.5.
BSI: Irradiance Front side 1000W/m² Rear side 300W/m², Ambient Temperature 25°C, Air Mass AM 1.5.

Performance at Low Irradiance

Model Type		645C(QBD) 66(210R)	650C(QBD) 66(210R)	655C(QBD) 66(210R)	660C(QBD) 66(210R)	665C(QBD) 66(210R)
Nominal Max. Power	P_{MAX} (W)	126	127	128	129	130
Max. Power Voltage	V_{MP} (V)	41.48	41.61	41.74	41.86	41.99
Max. Power Current	I_{MP} (A)	3.04	3.06	3.08	3.09	3.10
Open Circuit Voltage	V_{OC} (V)	46.78	46.95	47.12	47.29	47.47
Short Circuit Current	I_{SC} (A)	3.21	3.22	3.24	3.25	3.26

* Performance at low irradiance: Irradiance 200W/m², Cell Temperature 25°C, Air Mass AM1.5; Power measurement tolerance ±3%.

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~+70(TH98)°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	35A

Bifaciality Coefficient

Tolerance/φIsc	80.00±4%
Tolerance/φVoc	99.00±3%
Tolerance/φPmax	80.00±5%

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