



Photo for Reference

Part number

PR-YL-SP2MDB530-555	530W-555W P-type PERC Dual-glass Bifacial Monocrystalline solar panel
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Features

2.00% the 1st year power degradation, $\leq 0.5\%$ annual power degradation
P-type PERC Technology
Half cell Technology
Backside Yield
Lower Losses
Excellent Durability

Mechanical data

Cell Type	P-type monocrystalline
No. of Cells	144 (6×24)
Dimensions (mm)	2278×1134×30
Weight (kg)	32.0
Front Glass Thickness (mm)	2.0
Back Glass Thickness (mm)	2.0
Frame	Anodized Aluminum Alloy
Junction Box	3 bypass diodes / $\geq$ IP68
Connector Type	MC4/Others

Output Cables	4.0 mm ² ;± 300 mm or customized length
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Specifications(STC)

PR-YL-SP2MDB	530	535	540	545	550	555
Maximum Power - Pmax (Wp)	530	535	540	545	550	555
Power Output Tolerances-ΔPmax (W)	0 / + 5					
Maximum Power Voltage - Vmp (V)	41.30	41.45	41.60	41.75	41.90	42.05
Maximum Power Current - Imp (A)	12.84	12.91	12.99	13.06	13.13	13.20
Open-circuit Voltage - Voc (V)	49.15	49.30	49.45	49.60	49.75	49.90
Short-circuit Current - Isc (A)	13.76	13.83	13.90	13.97	14.04	14.11
Module Efficiency STC (%)	20.5	20.7	20.9	21.1	21.3	21.5

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Specifications(NOCT)

PR-YL-SP2MDB	530	535	540	545	550	555
Maximum Power - Pmax (Wp)	403	407	411	415	419	422
Maximum Power Voltage - Vmp (V)	39.39	39.53	39.67	39.82	39.96	40.10
Maximum Power Current - Imp (A)	10.24	10.30	10.36	10.42	10.47	10.53
Open-circuit Voltage - Voc (V)	46.72	46.87	47.01	47.15	47.29	47.44
Short-circuit Current - Isc (A)	11.09	11.14	11.20	11.25	11.31	11.37

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Specifications(BNPI)

PR-YL-SP2MDB	530	535	540	545	550	555
Maximum Power - Pmax (Wp)	580	586	591	597	602	607
Maximum Power Voltage - Vmp (V)	41.30	41.45	41.60	41.75	41.90	42.05
Maximum Power Current - Imp (A)	14.05	14.13	14.21	14.29	14.37	14.45
Open-circuit Voltage - Voc (V)	49.15	49.30	49.45	49.60	49.75	49.90
Short-circuit Current - Isc (A)	15.06	15.14	15.21	15.29	15.37	15.44

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Temperature Characteristics

Nominal Operating Cell Temperature-NOCT (°C)	39±2
Temperature Coefficients of Pmax (%/°C)	-0.35
Temperature Coefficients of Voc (%/°C)	-0.28
Temperature Coefficients of Isc (%/°C)	0.05

Application Conditions

Operating Temperature (°C)	-40 ~ +85
Maximum System Voltage (VDC)	1500 (IEC)
Maximum Series Fuse Rating (A)	30
Max. Static Load, Front (e.g., snow) (Pa)	5400
Max. Static Load, Back (e.g., wind) (Pa)	2400
Max. Hailstone Impact (diameter / velocity) (mm/m·s ⁻¹)	25 / 23

Packaging Configuration

Number of Modules per Pallet	36
Number of Pallets per 40' Container	20
Packaging Box Dimensions (L / W / H) (mm)	2300/ 1110/ 1245
Box Weight (kg)	1207

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