

PROSTAR SERIES

N-Type Bifacial glass to glass panels: 132 Half cut cells

KOSOL
ENERGIE
THE ENERGIE ENGINEERS

Electrical Data (STC)

Maximum Power (Pmax) (+0 ~ 4.99 Wp)	535	540	545	550	555	560	565	570	575	580
Maximum Power Voltage, (Vmp)	40.72	40.92	40.98	41.19	41.41	41.63	41.79	42.02	42.18	42.34
Maximum Power Current (Imp)	13.15	13.19	13.34	13.41	13.44	13.48	13.53	13.62	13.67	13.72
Open-Circuit Voltage (Voc) ± 5%	46.86	46.95	47.05	47.19	47.36	47.58	47.9	48.07	48.24	48.41
Short-Circuit Current (Isc) ± 5%	13.64	13.72	13.81	13.88	13.92	13.93	13.95	14.00	14.02	14.04
Module Efficiency STC (%)	22.54	22.75	22.96	23.17	23.38	23.59	23.80	24.02	24.23	24.44

*Values without tolerance are typical numbers. Standard Test Condition (STC): Cell Temperature 25°C, Irradiance: 1000 W/m², AM : 1.5

Electrical Characteristics with different rear side power gain (REF. - 555Wp front)

Bifaciality Gain	3%	5%	10%	15%	20%
Maximum Power (Pmax)	563	572	594	616	638
Maximum, Power Voltage, Vmpp (V)	41.66	42.02	43.12	44.39	45.65
Maximum Current, Imp(A)	13.52	13.63	13.78	13.89	13.98
Open Circuit Voltage, Voc(V)	43.40	43.77	44.92	46.24	47.55
Short Circuit Current, Isc(A)	14.10	14.21	14.38	14.51	14.61

**Bifaciality Factor: 80 ± 20%, Back-side power gain varies depending upon the specific albedo

Mechanical Data

Panel Type	N-Type Bi-Facial Glass to Glass Panels
Dimensions (mm) (± 2mm)	2093mm (L) X 1134mm (W) X 30mm (T)
Dimensions (inch) (± 0.079)	82.40 in (L) X 44.64 in (W) X 1.18 in (T)
Weight (kg)	32 kg ~
Weight (lbs)	70.54 lbs ~
Solar Cell	132 (11 X 12) nos. Half cut M10R cells
Frame	Anodized Aluminium Black/Silver
Front Glass	2.0 mm thickness, AR Coating - Tempered Glass
Back Glass	2.0 mm thickness, Semi-tempered/Grid Glass
Junction Box	Split JB with 03 diodes & IP68 UL Approved
Cable	300mm or customised length, 4 mm ² , 6.3mm dia. (UL approved)
Connector	MC4 Connector / Stabuli Connector (optional) (UL approved)

Operating Conditions

Mechanical Load (Wind/Snow)	2400 Pa Rear / 5400 Pa Front
Hail Impact Resistance	35 mm dia. with 1 Inch at 51.6 mph
Maximum System Voltage	1500 V
Series Fuse Rating	30 A
Operating Temperature	-40 °C to +85 °C

Temperature Characteristics

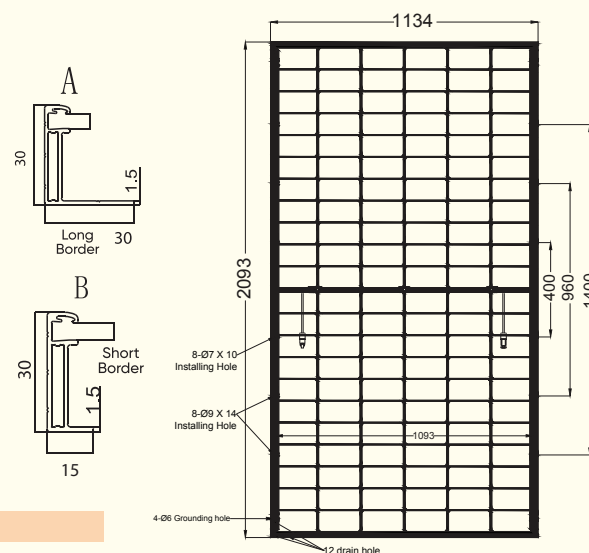
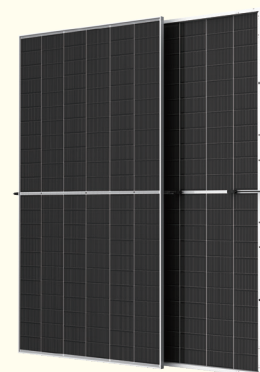
Nominal Module Operating Temperature	45 °C ± 2 °C
Temperature Co-efficient of Isc	0.046 % / °C
Temperature Co-efficient of Voc	-0.259% / °C
Temperature Co-efficient of Pmax	-0.30% / °C

Shipping Specs

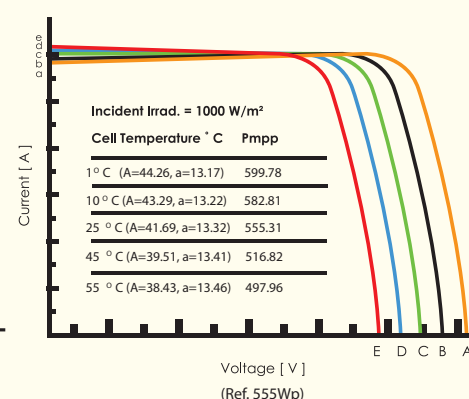
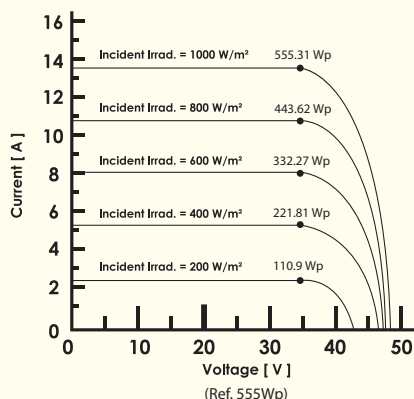
Modules / Pallet	31
Pallets / 40 ft HQ container	20

Certifications

UL - 61730 - 1 & 2 (CAN/CSA), | CEC
UL Fire Class - 1 | Application Class - A
Electrical safety Class - II
IEC 61215 : 2021 | IEC 61730-1 & 2 : 2023
IEC 62716 : 2013 | IEC 61701 : 2020
IEC TS 62804 - 1 - 1 : 2020
IEC TS 63342 : 2022
IEC 61853 -1
(PAN File "[Download](#)")



Back View
(Grid/ Mess back glass)



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CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT. Specifications included in this datasheet are subject to change without notice. Please confirm your exact requirements with the company representative before placing the order and finalizing the confirmation.

