

HALF-CELL BIFACIAL MODULE

TYPE: Bi N-TOPCon 410-430W



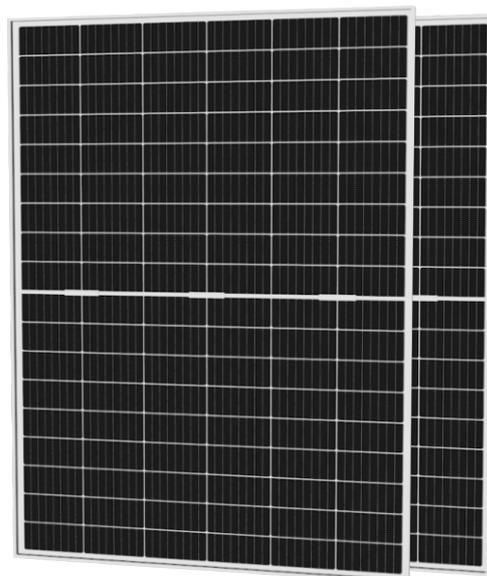
STOREPOWER

POWER OUTPUT MAX EFFICIENCY

410-430W 22.0%

Mechanical Characteristics

Solar Cell	N-type Monocrystalline silicon 182 mm
No. of Cells	108 (6 × 18)
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.2 inches)
Weight	21.9 kgs (48.3 lbs.)
Front\ Back Glass	1.6 + 1.6 mm (0.063 + 0.063 inches) semi-tempered glass
Output Cables	4.0 mm ² (-) 350 mm and (+) 160 mm in length or customized length
Junction Box	IP68 rated (3 bypass diodes)
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Connectors	STP-XC4
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(80 ± 5)%
Packing Configuration	Packaging box dimensions (mm) : 1755×1120×1255 Packaging box weight (kg) : 826 36 Pieces per pallet 936 Pieces per container / 40' HC



Electrical Characteristics

Module Type	Bi N-TOPCon 430W		Bi N-TOPCon 425W		Bi N-TOPCon 420W		Bi N-TOPCon 415W		Bi N-TOPCon 410W	
Testing Condition	STC	NMOT								
Maximum Power (Pmax/W)	430	328.7	425	325.0	420	321.1	415	317.3	410	313.5
Optimum Operating Voltage(Vmp/V)	32.33	30.2	32.15	30.0	31.96	29.9	31.78	29.7	31.59	29.6
Optimum Operating Current (Imp/A)	13.30	10.89	13.22	10.82	13.14	10.75	13.06	10.68	12.98	10.60
Open Circuit Voltage (Voc/V)	38.72	36.8	38.59	36.6	38.46	36.5	38.33	36.4	38.20	36.3
Short Circuit Current (Isc/A)	14.25	11.49	14.17	11.42	14.09	11.36	14.01	11.30	13.93	11.23
Module Efficiency (%)	22.0		21.8		21.5		21.3		21.0	

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.050%/°C



Different Rearside Power Gain

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	441.0	483.0	525.0
Optimum Operating Voltage (Vmp/V)	32.0	32.0	32.1
Optimum Operating Current (Imp/A)	13.80	15.11	16.43
Open Circuit Voltage (Voc/V)	38.5	38.5	38.6
Short Circuit Current (Isc/A)	14.79	16.20	17.61
Module Efficiency (%)	22.6	24.7	26.9