



High Customer Value

- Bloomberg Tier 1 manufacturer
- Produced in advanced solar panel factory in USA with expert-level engineering & quality system
- Superior aesthetics with full black design, ideal for residential and C&I rooftops
- Perfect size and weight less than 50 lbs for easier handling and installation
- Certified mechanical performance up to -5400Pa, which is 2.5 times than conventional solar panel



Small in size, bigger on power

- Up to 445W, 22.3% module efficiency with high density interconnect technology
- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems
- Lower BOS cost with lower open-circuit voltage, higher power bin and efficiency
- Boost performance in warm weather with low temperature coefficient and operating temperature efficiency



DATA (STC)

Parameter	420	425	430	435	440	445
Power (W)	420	425	430	435	440	445
0 ~ +5						
V _{MPP} (V)	28.3	28.5	28.8	29.1	29.3	29.5
I _{MPP} (A)	14.84	14.88	14.93	14.99	15.02	15.08
V _{OC} (V)	33.7	33.9	34.3	34.5	34.8	35.1
I _{SC} (A)	15.80	15.84	15.89	15.96	16.01	16.07
V _{MPPT} (V)	21.0	21.3	21.5	21.8	22.0	22.3

Ambient Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%. **Power selection up to: +3%.

DATA (NOCT)

Parameter	Value
V _{MPP} (V)	
I _{MPP} (A)	
V _{OC} (V)	
I _{SC} (A)	

Ambient Temperature 20°C, Wind Speed 1m/s.

TEMPERATURE RATINGS

Operating Temperature	43°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.29% /°C
Temperature Coefficient of V _{OC}	-0.24% /°C
Temperature Coefficient of I _{SC}	0.04% /°C

ENVIRONMENTAL RATINGS

Operating Temperature	-40 ~ +85°C
IEC 61215	1500V DC (IEC)
UL 1703	1500V DC (UL)
Max. DC Current	30A

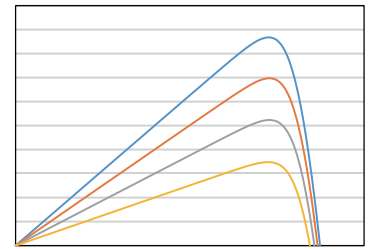
CURVES OF PV MODULE

I-V CURVES OF PV MODULE (435W)

Current (A)

P-V CURVES OF PV MODULE (435W)

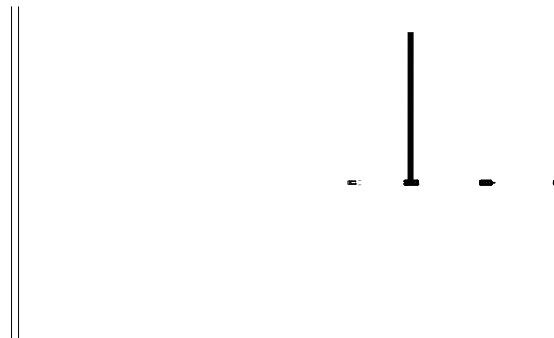
Power (W)



Voltage (V)

MECHANICAL DATA

Cell Technology	N-type TOPCon Monocrystalline
Dimensions	1134 × 35 mm (44.65 × 1.38 inches)
Weight	4.7 kg (10.35 lb)
Front Cover	3.2 mm (0.13 inches), High Strength Tempered Glass
Backsheet	Black Opaque Backsheet
Frame	1.38 inches, Anodized Aluminium Alloy, Black
Mounting	Standard
Cell Spacing	0.5 mm (0.02 inches)
Cell Size	110 mm / 110 mm (4.33 inches)
Cell Size	can be customized
Connectors	MC4 / TS4 Plus / TS4*



Packaging Modules per box: 31 pieces
Modules per 53' container: 806 pieces

Fire Type Type 1 or Type 2

*Please refer to regional datasheet for specified connector.