

BIPRO

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430 - 450W 16BB Half-cut N-type Full Black

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems







PERFORMANCE WARRANTY



KEY FEATURES



16BB Half-cut Cell Technology

Lower LID/LeTID degradation and better low light performance Attenuation \leqslant 1% [1st year] / \leqslant 0.4% (Linear)



Industry Leading High Yield

Bifacial TOPCon cell technology, Dual-sided power generation gain from back side depending on albedo, significantly reduce LCOE



Excellent Anti-PID Performance

192 hours Anti-PID test



Wider Application

No water-permeability and high wear-resistance, can be widely used in high-humid, windy and dusty area



IP68 Junction Box

High waterproof level

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT								
Maximum Power (Pmax/W)	430	327	435	330	440	334	445	338	450	342
Operating Voltage (Vmpp/V)	28.92	27.30	29.22	27.50	29.52	27.70	29.79	28.00	30.09	28.20
Operating Current (Impp/A)	14.87	11.97	14.89	12.00	14.91	12.05	14.94	12.09	14.96	12.12
Open-Circuit Voltage (Voc/V)	34.76	33.00	34.98	33.20	35.20	33.40	35.42	33.60	35.64	33.80
Short-Circuit Current (Isc/A)	15.72	12.67	15.76	12.71	15.80	12.74	15.83	12.76	15.86	12.79
Module Efficiency (%)	21.	50	21.	80	22.	00	22	.30	22	.50

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3% NM0T: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

REAR SIDE POWER GAIN(REFERENCE TO 445W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	467	490	512	534	556
Vmpp/V	29.79	29.79	29.79	29.79	29.79
Impp/A	15.69	16.43	17.18	17.93	18.68
Voc/V	35.42	35.42	35.42	35.42	35.42
Isc/A	16.62	17.41	18.20	19.00	19.79

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (16Busbar)		
No. of Cells	96pcs in series (6*16)		
Module Dimensions	1762*1134*30mm (69.37*44.65*1.18inches)		
Weight	24.7kg (54.45lbs.)		
Front Glass	2.0mm AR Coating Semi-tempered Glass		
Back Glass	2.0mm Glazed Semi-tempered Glass		
Frame	Anodized Aluminium Alloy		
Junction Box	IP68, 3 Bypass Diodes		
Output Cables	4mm² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length		
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02		

APPLICATION CONDITIONS

Maximun System Voltage	1500V/DC		
Operating Temperature	-40°C~+85°C		
Maximun Series Fuse	35A		
Safety Protection Class	Class II		
Mechanical Load	Front side 5400Pa, Back side 2400Pa		
Refer. Bifaciality Factor	80%±5%		

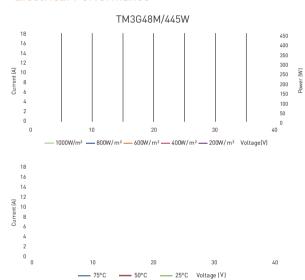
TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

PACKING CONFIGURATION

Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	936	720

Electrical Performance



TECHNICAL DRAWINGS

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