

# BIPRO

тм7G54M**108-cell** 

415 - 435W

16BB Half-cut N-type Full Black

# **SYSTEM & PRODUCT CERTIFICATES**



- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems







# PERFORMANCE WARRANTY





Linear Performance Warranty







# 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)	415	316	420	319	425	323	430	326	435	330
Operating Voltage (Vmpp/V)	32.29	30.50	32.42	30.70	32.55	30.90	32.68	31.10	32.81	31.30
Operating Current (Impp/A)	12.86	10.34	12.96	10.39	13.06	10.44	13.16	10.49	13.26	10.54
Open-Circuit Voltage (Voc/V)	38.55	36.60	38.70	36.70	38.85	36.80	39.00	37.00	39.15	37.10
Short-Circuit Current (Isc/A)	13.52	10.91	13.57	10.95	13.62	10.98	13.67	11.02	13.72	11.06
Module Efficiency (%)	21.	30	21.	.50	21.	80	22	.00	22	.30

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

#### **REAR SIDE POWER GAIN(REFERENCE TO 425W FRONT)**

Pmax gain	5%	10%	15%	20%	25%	
Pmax/W	446	468	489	510	531	
Vmpp/V	31.70	31.70	31.70	31.70	31.70	
Impp/A	14.08	14.75	15.42	16.09	16.76	
Voc/V	38.30	38.30	38.30	38.30	38.30	
Isc/A	14.94	15.65	16.36	17.07	17.79	

#### **MECHANICAL CHARACTERISTICS**

Cell Type	N-type Mono-Crystallin (16Busbar)		
No. of Cells	108pcs in series (6*18) 1722*1134*30mm (67.80*44.65*1.18inches)		
Module Dimensions			
Weight	24.5kg (54.01lbs)  2.0mm AR Coating Semi-tempered Glass  2.0mm Glazed Semi-tempered Glass  Anodized Aluminium Alloy		
Front Glass			
Back Glass			
Frame			
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	30A		
Safety Protection Class	Class II		
Mechanical Load	Front side 5400Pa, Back side 2400Pa		
Refer. Bifaciality Factor	80%±5%		

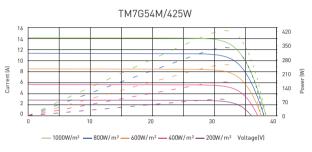
# **TEMPERATURE CHARACTERISTICS**

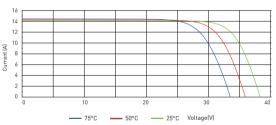
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

# **PACKING CONFIGURATION**

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

#### **Electrical Performance**





#### **TECHNICAL DRAWINGS**

