



# BIPRO

TM3G48M **96-c**

435 - 455W

Bifacial Dual Glass

16BB Half-cut N-type



## 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

Guaranteed Power

## KEY FEATURES



### 16BB Half-cut Cell Technology

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



### 16BB Half-cut Cell Technology

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



### 192 hours Anti-PID test

192 hours Anti-PID test



### Wide 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

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## ELECTRICAL CHARACTERISTICS

	435	330	440	334	445	338	450	342	455	346
$V_{oc}$ (V)	29.22	27.50	29.52	27.70	29.79	28.00	30.09	28.20	30.34	28.40
$V_{mp}$ (V)	14.89	12.00	14.91	12.05	14.94	12.09	14.96	12.12	15.00	12.17
$V_{oc}$ (V)	34.98	33.20	35.20	33.40	35.42	33.60	35.64	33.80	35.85	34.00
$V_{mp}$ (V)	15.76	12.71	15.80	12.74	15.83	12.76	15.86	12.79	15.90	12.82
$\eta$ (%)	21.80		22.00		22.30		22.50		22.80	

1000 W/m<sup>2</sup>, 1.5, 25°C, 0+5, 3%

## REAR SIDE POWER GAIN(REFERENCE TO 445W FRONT)

	5%	10%	15%	20%	25%
$V_{oc}$ (V)	467	490	512	534	556
$V_{mp}$ (V)	29.79	29.79	29.79	29.79	29.79
$V_{oc}$ (V)	15.69	16.43	17.18	17.93	18.68
$V_{mp}$ (V)	35.42	35.42	35.42	35.42	35.42
$V_{oc}$ (V)	16.62	17.41	18.20	19.00	19.79

## MECHANICAL CHARACTERISTICS

Material	N-type Mono-Crystallin (16Busbar)
Quantity	96pcs in series (6*16)
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
Protection	IP68, 3 Bypass Diodes
Wiring	4mm <sup>2</sup> (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length
Mounting	T01/LJQ-3-CSY/MC4/MC4-EV02

## APPLICATION CONDITIONS

Voltage	1500V/DC
Temperature	-40°C~+85°C
Current	35A
Class	Class II
Pressure	Front side 5400Pa, Back side 2400Pa
Efficiency	80%±5%

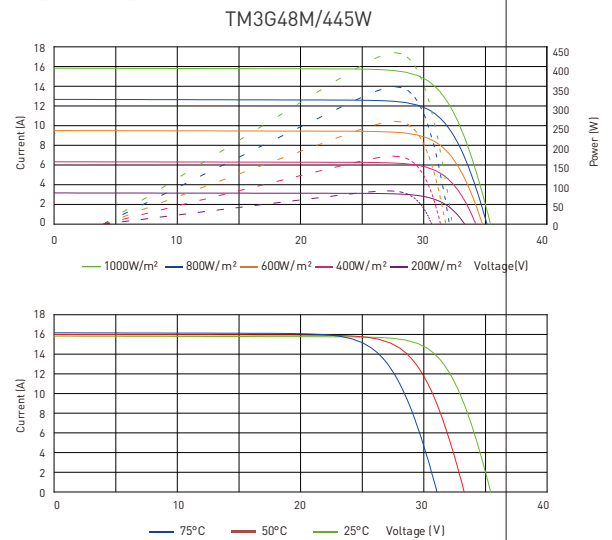
## TEMPERATURE CHARACTERISTICS

$V_{oc}$ (V)/°C	-0.29%/°C
$V_{mp}$ (V)/°C	-0.24%/°C
$I_{sc}$ (A)/°C	+0.043%/°C
$\eta$ (%)	43±2°C

## PACKING CONFIGURATION

Quantity	36	36(USA)
Quantity (40.0)	936	720

## Electrical Characteristics



## TECHNICAL DRAWINGS



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