



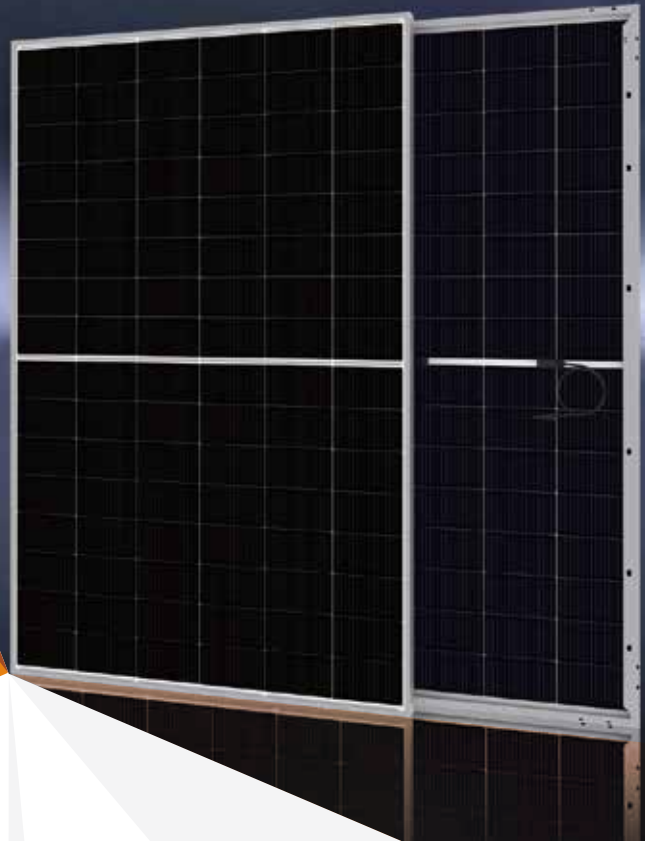
BIPRO

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)



Bifacial TOPCon cell technology

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



192 hours Anti-PID test



High wear-resistance

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



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
η (%)	21.80	22.00	22.30	22.50	22.80					

Test conditions: 1000 W/m², L1.5, L_{ref} = 1.5m, T_{cell} = 25°C, $\gamma = 0 \pm 5^\circ$, $\tau = 0$, $\sigma = 3\%$
 Test conditions: 800 W/m², L1.5, L_{ref} = 1.5m, T_{cell} = 20°C, $\gamma = 0$, $\tau = 0$, $\sigma = 3\%$

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 ² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length
Mounting	T01/LJQ-3-CSY/MC4/MC4-EV02

APPLICATION CONDITIONS

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

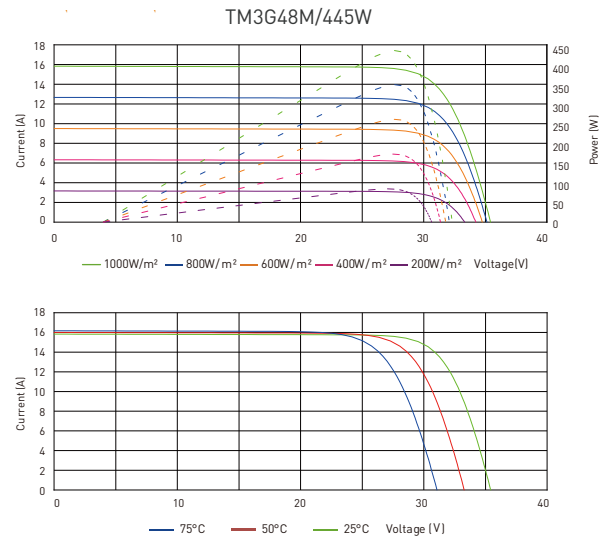
TEMPERATURE CHARACTERISTICS

V_{oc} temperature coefficient	-0.29%/°C
V_{mp} temperature coefficient	-0.24%/°C
I_{sc} temperature coefficient	+0.043%/°C
Operating Temperature	43±2°C

PACKING CONFIGURATION

Quantity per pallet	36	36(USA)
Quantity per container (40' HQ)	936	720

TECHNICAL DRAWINGS



TECHNICAL DRAWINGS



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