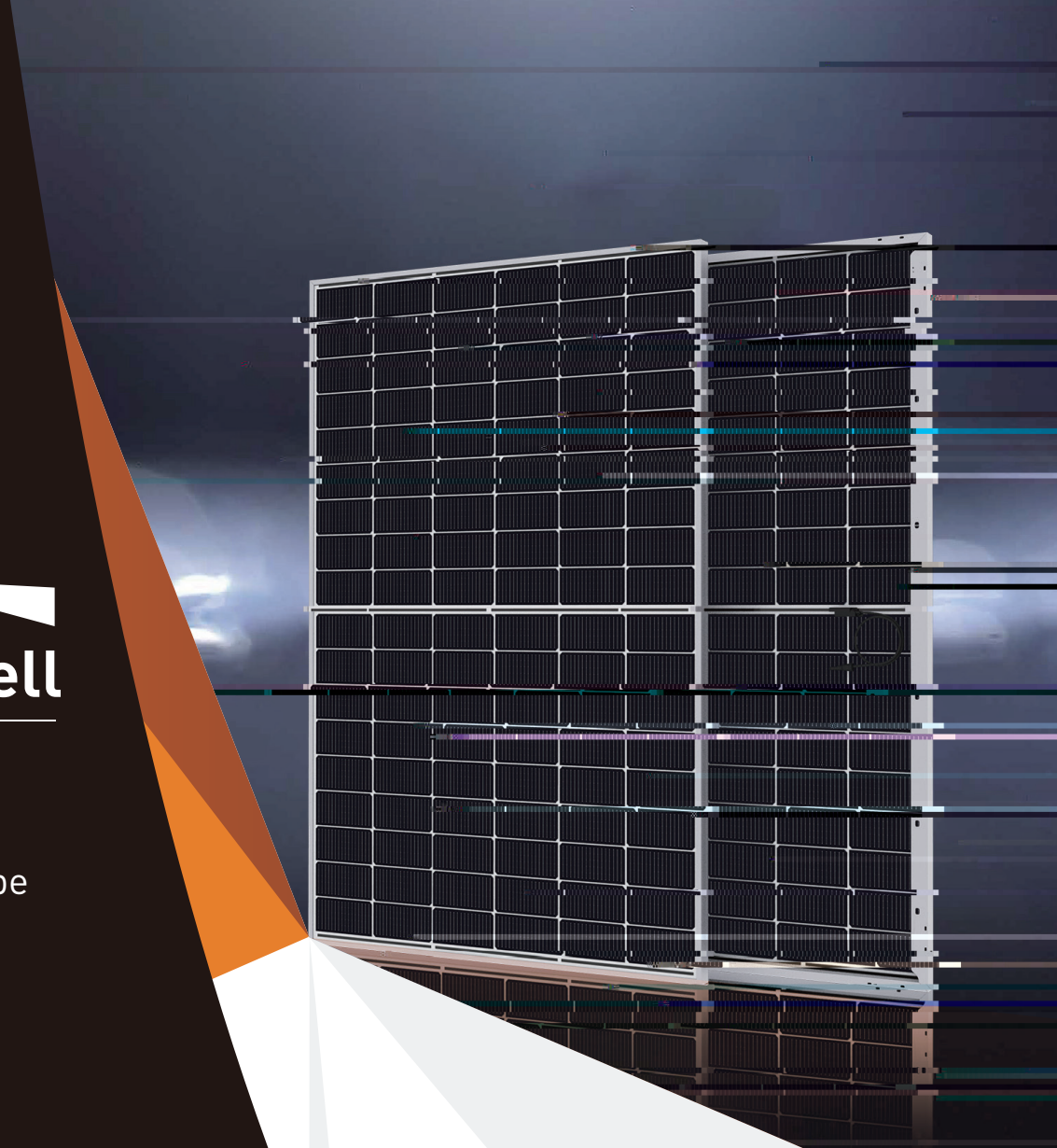
TA

TM7G54M 108-cell

420 - 440W

Bifacial Dual Glass
16BB Half-cut N-type



SY

- I
- I
- I
- I

PI

Guaranteed Powe

KEY FEATURES

16BB Half-cut Cell Technology

Lower LID/LeTID degradation and better low light performance
Attenuation ⩽1% (1st year) / ⩽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

ater-permeability and high wear-resistance,
idely used in high-humid, windy and dusty area

Box

maretingh@talesun.com

* GL-EN-Version 2024.04.10

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)										
Operating Voltage (Vmpp/V)										
Operating Current (Impp/A)										
Open-Circuit Voltage (Voc/V)										
Short-Circuit Current (Isc/A)										
Module Efficiency (%)	21.50		21.80		22.00		22.30		22.50	

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

REAR SIDE POWER GAIN(REFERENCE TO 430W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	452	473	495	516	538
Vmpp/V	32.68	32.68	32.68	32.68	32.68
Impp/A	13.82	14.48	15.13	15.79	16.45
Voc/V	39.00	39.00	39.00	39.00	39.00
Isc/A	14.35	15.04	15.72	16.40	17.09

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (16Busbar)
No. of Cells	108pcs in series (6*18)
Module Dimensions	1722*1134*30mm (67.80*44.65*1.18inches)
Weight	24.5kg (54.01lbs)
Front Glass	
Back 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-EVO2

APPLICATION CONDITIONS

Maximun System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	30A
Safety Protection Class	Class
Mechanical Load	
Refer. Bifaciality Factor	

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	
Temperature Coefficient of Voc	
Temperature Coefficient of Isc	
Nominal Module Operating Temperature(NMOT)	

PACKING CONFIGURATION

Pieces Per Pallet	
Pieces Per Container(40'HQ)	

Electrical Performance

TECHNICAL DRAWINGS

TALESUN