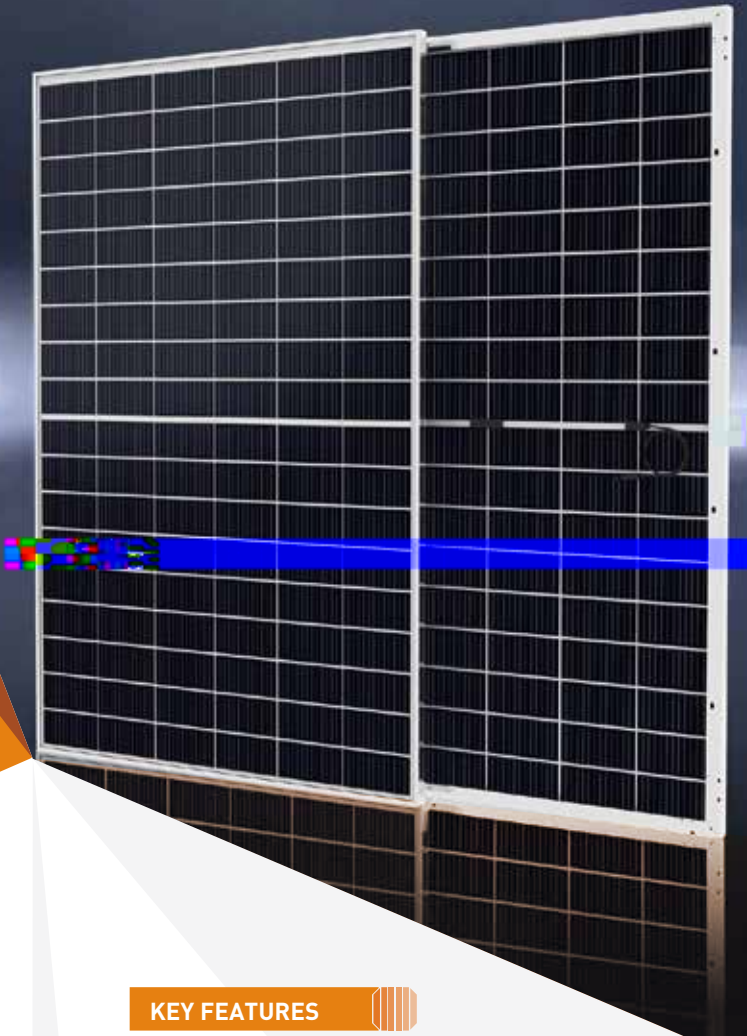


PERO

TD8G5 12BB Half-cut Mono Perc

540 W
Bifacial PERC Glass
12BB Half-cut Mono Perc



SYSTEM & PRODUCTION

IEC 61215 / IEC 61730

ISO 9001: 2015 Quality

ISO 14001: 2015 Environ

ISO 45001: 2018 Occupa
Safety Systems

CERTIFICATIONS

UL 1741

Energy Storage System

UL 9540 Energy Storage System

UL 1973 Health and Safety



WARRANTY

10 Year Performance Warranty

KEY FEATURES



12BB Half-cut Cell Technology

New circuit design, lower internal current, lower R_s loss
Ga doped wafer, attenuation <2% (1st year) / <0.45% (Linear)



Industry Leading High Yield

Bifacial PERC cell technology,
5%-25% more yield depends on different conditions



Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



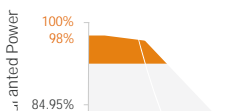
Wider Application

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	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	540	409	545	413	550	417	555	421	560	425
Operating Voltage (Vmpp/V)	31.20	29.30	31.40	29.40	31.60	29.60	31.80	29.80	32.00	30.00
Operating Current (Impp/A)	17.31	13.99	17.36	14.04	17.41	14.08	17.46	14.12	17.51	14.15
Open-Circuit Voltage (Voc/V)	37.40	35.40	37.60	35.60	37.80	35.70	38.00	35.90	38.20	36.10
Short-Circuit Current (Isc/A)	18.39	14.82	18.44	14.86	18.49	14.90	18.54	14.94	18.58	14.97
Module Efficiency [%]	21.10		21.30		21.50		21.70		21.90	

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 545W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	572	600	627	654	681
Vmpp/V	31.40	31.40	31.40	31.40	31.40
Impp/A	18.22	19.11	19.97	20.83	21.69
Voc/V	37.60	37.60	37.60	37.60	37.60
Isc/A	19.35	20.30	21.21	22.13	23.04

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (12Busbar)
No. of Cells	108pcs in series (6*18)
Module Dimensions	1961*1303*35mm (77.20*51.30*1.38inches)
Weight	31.5kg (69.44lbs.)
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	4mm ² (IEC), 12AWG(UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EVO2

APPLICATION CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	35A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	70%±5%

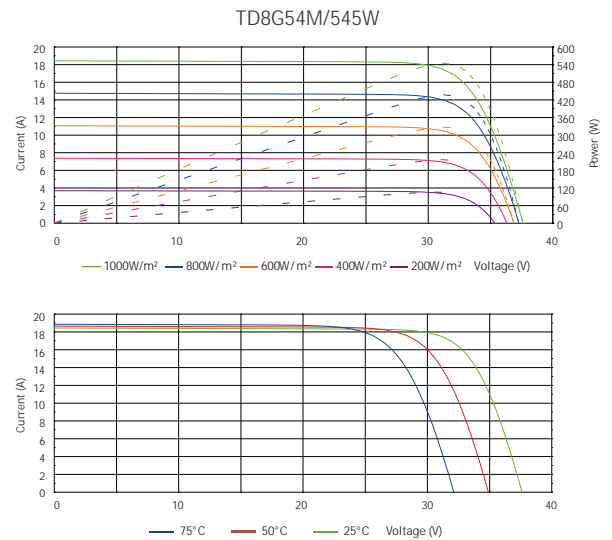
TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

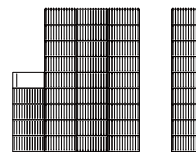
PACKING CONFIGURATION

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	558	558

I-V CURVE



TECHNICAL DRAWINGS



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.