Solar panels

TADIRAN

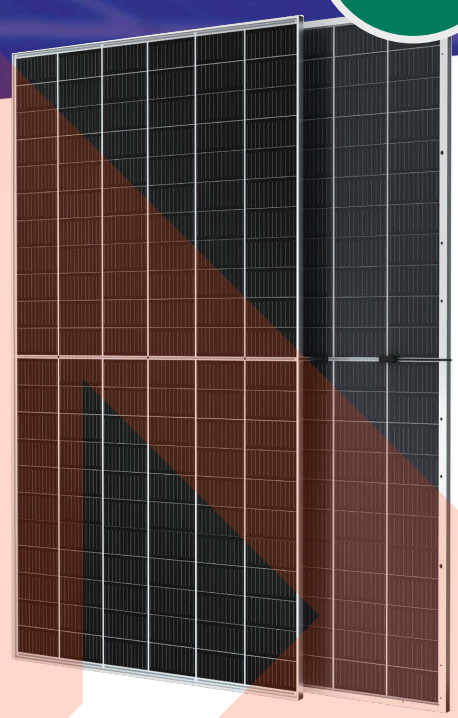
TD630-TM10-132BD

Monocrystalline solar panel

TIER 1 Bloomberg NEW ENERGY FINANCE

23.30 %
Panel efficiency

12 years
Warranty on product



630 W
Panel power

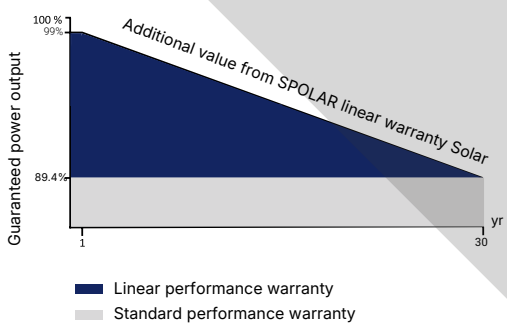
Bifacial
Double-sided

N-Type
Cells

TOPCon
Technology

30 years
Warranty to retain 88% of output

Performance warranty



High efficiency
Higher power conversion efficiency and lower temperature coefficient thanks to advanced tunnel oxide passivated contact (TOPCon) technology.

Anti-reflective coating
Reflectance below 20% with minimal glare.

Low-light performance
Improved glass and cell texture gives high panel performance in low light.

Resistance to harsh weather
Certified to withstand wind load (2400 Pa), snow load and hail impact (5400 Pa).

Resistance to extreme environmental conditions
Excellent PID, ammonia and salt-mist resistance, certified to 2 PfG 2387/01.18, IEC61716 and IEC61701.

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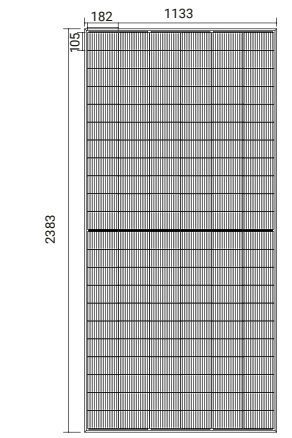
Electrical characteristics at standard test conditions (STC)		
Model		TD630-TM10-132BD
Solar panel power	W	630
Voltage at maximum power	V	40.70
Current at maximum power	A	15.48
Open-circuit voltage	V	48.90
Short-circuit current	A	16.18
Eff.	%	23.30

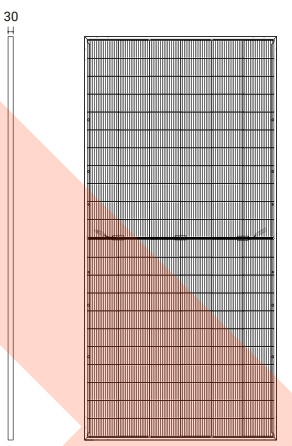
STC: irradiance 1000 W/m2, air mass 1.5, wind speed 0 m/s, air temperature 25°C

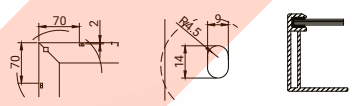
Electrical characteristics at 10% bifacial gain (BNPI)					
Rated power	W		695		
Voltage at maximum power	V		40.70		
Current at maximum power	A		17.08		
Open-circuit voltage	V		48.90		
Short-circuit current	A		17.85		
Power tolerance	W	0~+3	Maximum system voltage	V	1500
Temperature coefficient of power	%/°C	-0.3	Operating temperature range	°C	-40~+85
Voltage temperature coefficient	%/°C	-0.275	Nominal operating temp. (NOCT)	°C	45±2
Current temperature coefficient	%/°C	0.045	Maximum rated current of fuse	A	35

BNPI: irradiance 1000 W/m2 (front), 135 W/m² (rear), cell temperature 25°C, AM=1.5

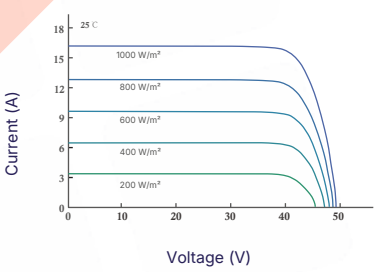
Mechanical characteristics	
Cell type	Monocrystalline TOPCon 182×105 mm
Number of cells	132 (6×22) pcs
Dimensions	2383×1133×30 mm
Weight	33.7 kg
Frame material	Anodised aluminium
Front glass	Dual glass 2.0 mm; heat-strengthened glass
Junction box	IP 68
Connection cable	1×4.00 mm², length: 1200 mm or custom
Connector	MC4 compatible
Permissible snow load	5400 Pa
Permissible wind load	2400 Pa
Packing	37 pcs per pallet / 740 pcs per 40'HQ



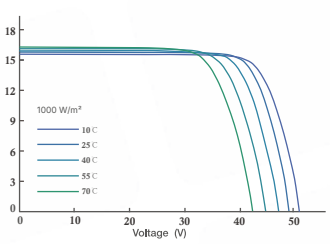




Panel I-V curves at different irradiance levels



Panel I-V curves at different operating temperatures



Voltage (V)

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