

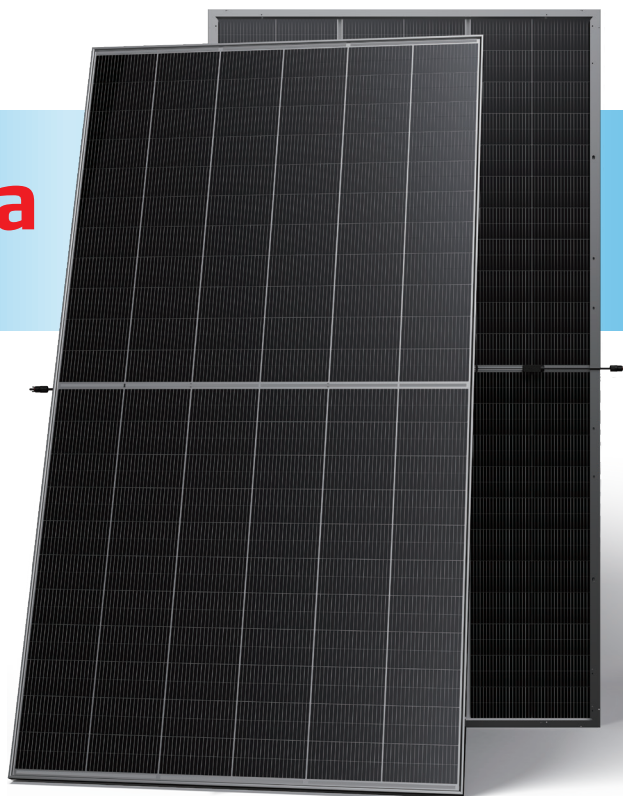
N-type i-TOPCon Ultra

BIFACIAL DUAL GLASS MONOCRYSTALLINE MODULE

TSM-xxxNEG21C.20Q 735-760W

760W / MAXIMUM POWER OUTPUT

24.5% / MAXIMUM EFFICIENCY



High customer value

- Standardized module size with flagship module power, 35W higher compared with conventional technology
- Low voltage design with higher string power, effectively reducing BOS (Balance of System) and LCOE (Levelized Cost of Energy)
- Higher container space utilization effectively reduces the freight cost
- The Star of LCOE



High power up to 760W

- Up to 24.5% module efficiency, on T10 innovation platform
- Patented i-TOPCon Ultra technology with continuous efficiency improvement, including contact resistance reduction, rear reflection enhancement and edge quality repairment



High reliability

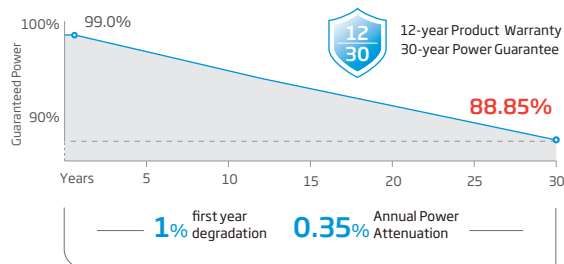
- Minimized micro-cracks with innovative non-destructive cutting technology and high-density packaging
- Reduced risks of hot-spot and micro-cracks with multi-cut technology and cell clearance buffering
- Fire Class C, Safety Class II
- Mechanical performance up to 5400 Pa static test load, Front and 2400 Pa static test load, Back



High energy yield, power bifaciality 85±5%

- Excellent low irradiation performance, validated by 3rd party
- Lower temperature coefficient (-0.26%/°C)
- Higher bifaciality, with up to 10%~20% additional power gain from back side depending on albedo
- Reliable dual-glass structure with 30-year power guarantee
- Lower annual attenuation guarantees a higher power generation within lifecycle

Performance Warranty



*Please refer to product warranty for details
(Power degradation values above apply to frontside, refer to product warranty for power degradation for backside and other details)

Comprehensive Products and System Certificates

IEC61215/IEC61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO14064: Greenhouse Gases Emissions Verification

ISO45001: Occupational Health and Safety Management System



ELECTRICAL DATA (STC & NOCT & BNPI) TSM-xxxNEG21C.20Q(xxx=735-760)

Testing Condition	STC	NOCT	BNPI	aBSI	STC	NOCT	BNPI	aBSI	STC	NOCT	BNPI	aBSI	STC	NOCT	BNPI	aBSI	STC	NOCT	BNPI	aBSI	STC	NOCT	BNPI	aBSI
Peak Power Watts- $P_{MAX}(W_p)^*$	735	564	819		740	568	825		745	572	830		750	576	836		755	580	842		760	583	847	
Power Selection (W)	0 ~ +5																							
Maximum Power Voltage- $V_{MPP}(V)$	41.90	39.50	41.90		42.10	39.70	42.10		42.30	39.90	42.30		42.50	40.10	42.50		42.70	40.30	42.70		42.90	40.40	42.90	
Maximum Power Current- $I_{MPP}(A)$	17.55	14.27	19.56		17.58	14.30	19.60		17.62	14.33	19.64		17.66	14.36	19.69		17.69	14.40	19.72		17.72	14.43	19.75	
Open Circuit Voltage- $V_{oc}(V)$	49.90	47.60	49.90		50.10	47.80	50.10		50.30	47.90	50.30		50.50	48.10	50.50		50.70	48.30	50.70		50.90	48.50	50.90	
Short Circuit Current- $I_{sc}(A)$	18.65	15.03	20.79	23.41	18.69	15.06	20.83	23.46	18.73	15.09	20.88	23.51	18.77	15.13	20.92	23.56	18.81	15.16	20.97	23.61	18.85	15.19	21.01	23.66
Module Efficiency $\eta_m(\%)$	23.7				23.8				24.0				24.1				24.3				24.5			

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s. BNPI: Irradiance: front 1000W/m², rear 135W/m², Temperature 25°C, Air Mass AM1.5
 *Measuring tolerance: $P_{max} \pm 3\%$, $V_{oc} \pm 3\%$ and $I_{sc} \pm 5\%$

Electrical characteristics with different power bin (reference to 5% & 10% backside power gain)

Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Peak Power Watts- $P_{MAX}(W_p)$	772	809	777	814	782	820	788	825	793	831	798	836		
Maximum Power Voltage- $V_{MPP}(V)$	41.90	41.90	42.10	42.10	42.30	42.30	42.50	42.50	42.70	42.70	42.90	42.90		
Maximum Power Current- $I_{MPP}(A)$	18.43	19.31	18.46	19.34	18.50	19.38	18.54	19.43	18.57	19.46	18.61	19.49		
Open Circuit Voltage- $V_{oc}(V)$	49.90	49.90	50.10	50.10	50.30	50.30	50.50	50.50	50.70	50.70	50.90	50.90		
Short Circuit Current- $I_{sc}(A)$	19.58	20.52	19.62	20.56	19.67	20.60	19.71	20.65	19.75	20.69	19.79	20.74		

ϕP_{max} : 85% $\pm$ 5%; ϕV_{oc} : 100% $\pm$ 3%; ϕI_{sc} : 85% $\pm$ 5%

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature) 43°C ($\pm 2^\circ\text{C}$)

Temperature Coefficient of P_{MAX} -0.26% / $^\circ\text{C}$

Temperature Coefficient of V_{oc} -0.24% / $^\circ\text{C}$

Temperature Coefficient of I_{sc} 0.04% / $^\circ\text{C}$

Due to different testing methods, the actual performances might differ from the declared specifications.

APPLICATION CONDITIONS

Operating Temperature* -40~+70°C

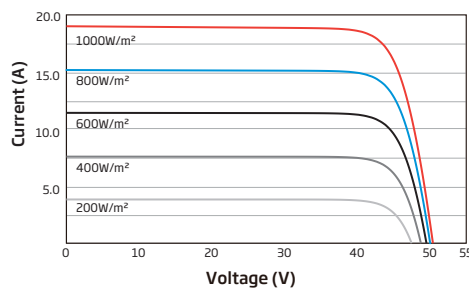
Maximum System Voltage 1500V DC (IEC)

Max Series Fuse Rating 35A

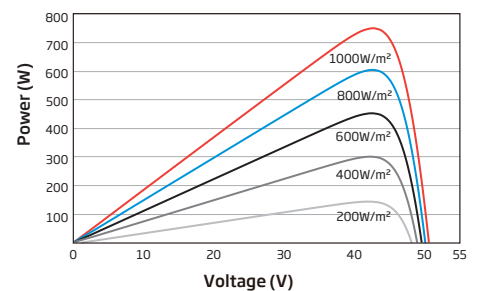
*PV module 98th percentile operating temperature: 70°C

CURVES OF PV MODULE (Cell Temperature (25 $\pm$ 2) $^\circ\text{C}$)

I-V CURVES OF PV MODULE (750W)

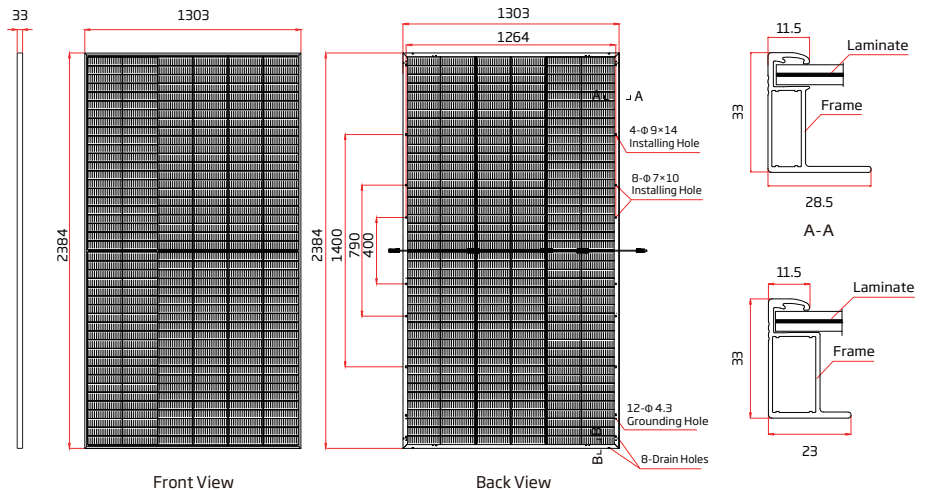


P-V CURVES OF PV MODULE (750W)



MECHANICAL DATA

Solar Cells	N-type i-TOPCon Monocrystalline
No. of cells	264 cells
Module Dimensions	2384 $\times$ 1303 $\times$ 33 mm (93.86 $\times$ 51.30 $\times$ 1.30 inches)
Weight	38.3 kg (84.4 lb)
Front Glass	2.0 mm (0.08 inches), AR Coating Heat Strengthened Glass
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass
Frame	33mm (1.30 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²) Portrait: 370/440 mm (14.57/17.32 inches) Length can be customized
Connector	TS4-cd / Stäubli Electrical Connectors AG PV-KST4-EVO2/xy_UR; PV-KBT4-EVO2/xy_UR PV-KST4-EVO2A/xy; PV-KBT4-EVO2A/xy
Packaging	Modules per box: 33 pieces Modules per 40' container: 594 pieces



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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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Version number: TSM_AUS_EN_2026_A
 Country of Origin: China