



TDM778-(615-645)G

MODULE SIZE

2465*1134*30mm

POWER OUTPUT RANGE

615W - 645W

POSITIVE POWER TOLERANCE

0 - + 3%

N-TOPCON MONOCRYSTALLINE MODULE

156 CELL

MAXIMUM EFFICIENCY

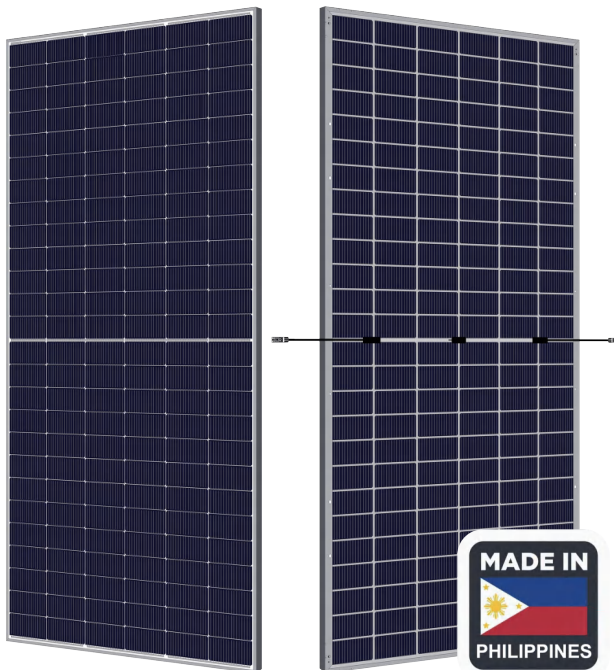
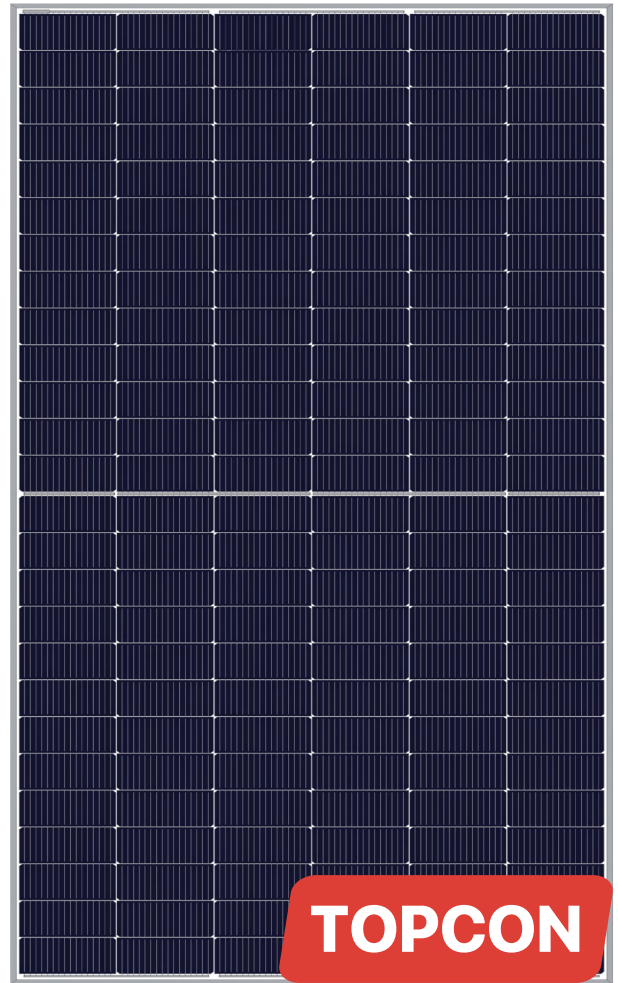
23.07%

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty

30 Year Linear Power Warranty

≤1% 1st Year Degradation **≤0.4%** Annual Degradation



Competitive Low Light Performance



Reduced Power Loss by Minimising the Effect of Shadow Shading



High Density Encapsulation



Multi-Busbar Technology



2400pa Wind Load
5400pa Snow Load



Reduced BOS & Increased ROI

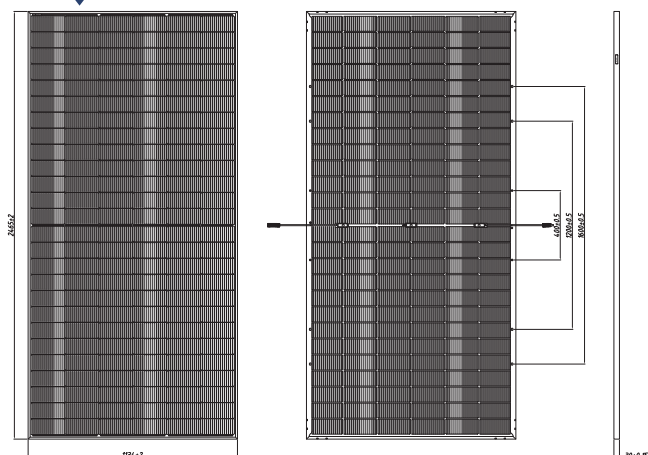
TIDE SOLAR

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DIMENSIONS OF PV MODULE



STRUCTURAL CHARACTERISTICS

Module Size	2465x1134x30mm
Weight	33.5Kg
Cell	N-topcon 182.2x91.875mm(156pieces)
Glass	2.0mm/2.0mm semi-tempered glass
Frame	anodized aluminum alloy
Junction Box	IP68, 3 diodes
Output Lead	4.0mm ² 300mm(+)/ 300mm(-) or customized
Mechanical Load	front 5400pa / back 2400pa

ELECTRICAL CHARACTERISTICS

Component Model	TDM778-615G		TDM778-620G		TDM778-625G		TDM778-630G		TDM778-635G		TDM778-640G		TDM778-645G	
Maximum Power (Pmax)	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
	615	681	620	687	625	693	630	698	635	704	640	709	645	715
Open Circuit Voltage (Voc)	56.69	56.69	56.82	56.82	56.95	56.95	57.08	57.08	57.21	57.21	57.34	57.34	57.47	57.47
Short Circuit Current (Isc)	13.68	15.16	13.74	15.22	13.80	15.29	13.86	15.36	13.92	15.42	13.98	15.49	14.04	15.56
Maximum Power Voltage (Vmp)	47.20	47.20	47.37	47.37	47.54	47.54	47.70	47.70	47.86	47.86	48.02	48.02	48.18	48.18
Maximum Power Current (Imp)	13.03	14.44	13.09	14.50	13.15	14.57	13.21	14.64	13.27	14.77	13.33	14.77	13.39	14.84
Component Efficiency (η)	22.00		22.18		22.36		22.54		22.72		22.90		23.07	
Power Tolerance	(0, +3%)													
Maximum System Voltage	1500V DC													
Maximum Rated Fuse Current	30A													

STC: Irradiance 1000 W/m² module temperature 25 °C AM=1.5 BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Cell Temperature 25°C, AM=1.5

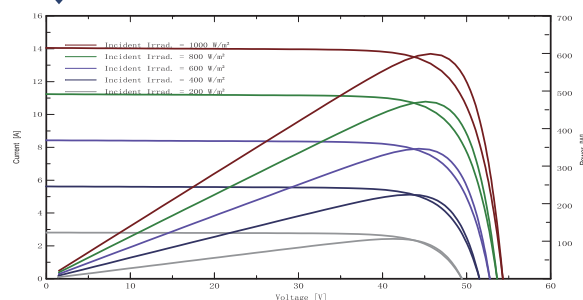
TEMPERATURE CHARACTERISTICS

Maximum Power Temperature Coefficient	-0.30 % / °C
Temperature Coefficient Of Open Circuit Voltage	-0.25 % / °C
Temperature Coefficient Of Short Circuit Current	+0.046 % / °C
Working Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C
Bifacial-Factor	80% ± 5%

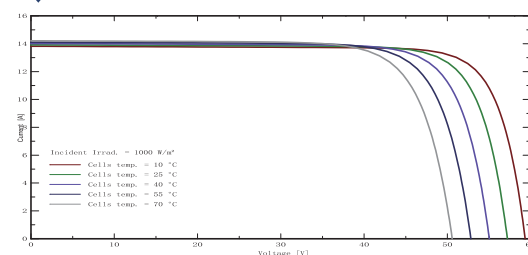
PACKING METHOD

Module Size	2465x1134x30mm
Container	40' HQ
Quantity Per Pallet	36
Number Of Pallets Per Container	16
Quantity Per Container	576

I-V/P-V CURVE AT DIFFERENT IRRADANCE(635W)



I-V CURVE ATDIFFERENT WORKING TEMPERATURE(635W)



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