



TDM754-(420-450)G

MODULE SIZE

1722*1134*30mm

POWER OUTPUT RANGE

420W - 450W

POSITIVE POWER TOLERANCE

0 - + 3%

N-TOPCON MONOCRYSTALLINE MODULE

108 CELL

MAXIMUM EFFICIENCY

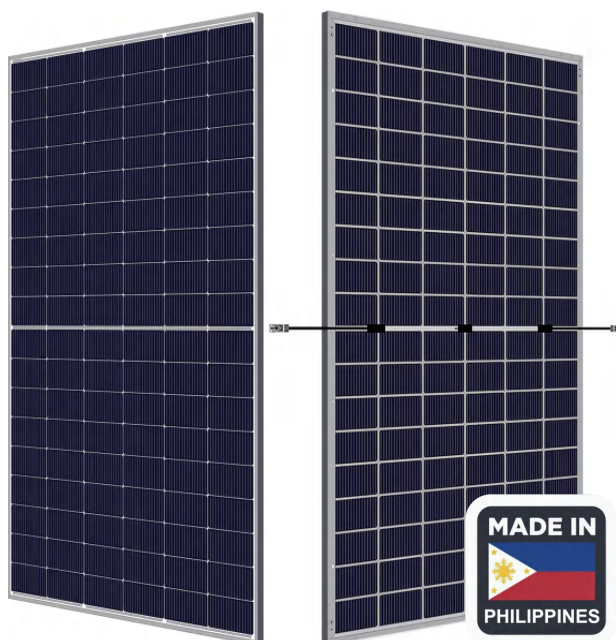
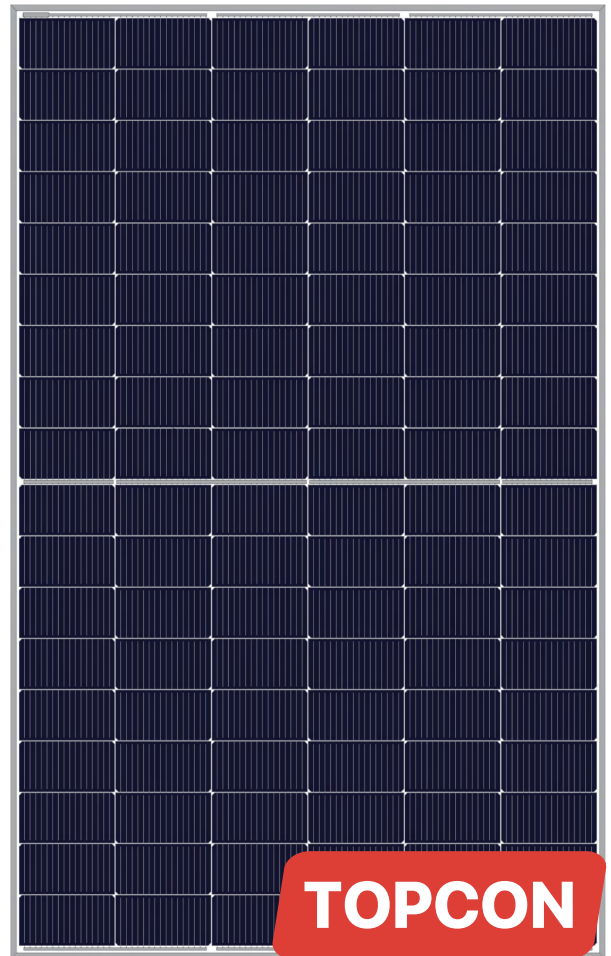
23.04%

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



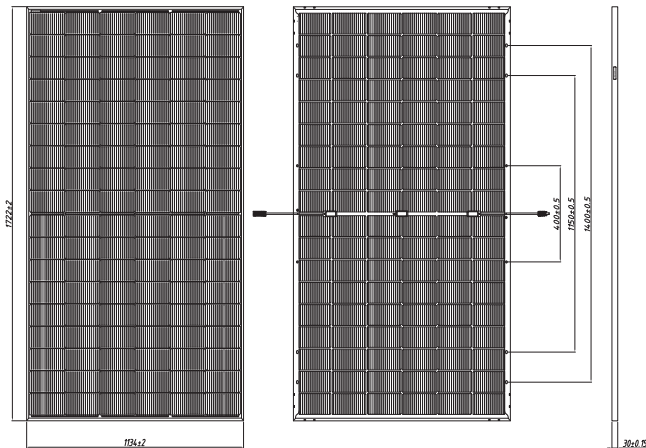
2400pa Wind Load
5400pa Snow Load



Reduced BOS & Increased ROI

TIDE SOLAR

DIMENSIONS OF PV MODULE



STRUCTURAL CHARACTERISTICS

Module Size	1722x1134x30mm
Weight	21.5Kg
Cell	N-topcon 182.2x91.875mm(108pieces)
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*

*Refer to Tidesolar installation manual for details

ELECTRICAL CHARACTERISTICS

Component Model	TDM754-420G		TDM754-425G		TDM754-430G		TDM754-435G		TDM754-440G		TDM754-445G		TDM754-450G	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (Pmax)	420	465	425	471	430	476	435	482	440	488	445	493	450	499
Open Circuit Voltage (Voc)	39.05	39.05	39.28	39.28	39.51	39.51	39.74	39.74	39.96	39.96	40.18	40.18	40.40	40.40
Short Circuit Current (Isc)	13.53	14.99	13.61	15.08	13.69	15.17	15.17	15.26	13.85	15.35	13.93	15.43	14.01	15.52
Maximum Power Voltage (Vmp)	32.23	32.23	32.44	32.44	32.65	32.65	32.85	32.85	33.06	33.06	33.26	33.26	33.46	33.46
Maximum Power Current (Imp)	13.03	14.44	13.10	14.51	13.17	14.59	13.24	14.67	13.31	14.75	13.38	14.83	13.45	14.90
Component Efficiency (η)	21.51		21.76		22.02		22.28		22.53		22.79		23.04	
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

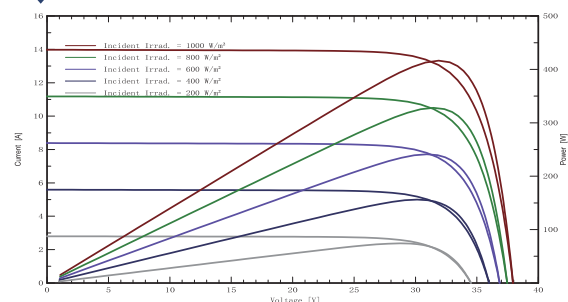
TEMPERATURE CHARACTERISTICS

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%

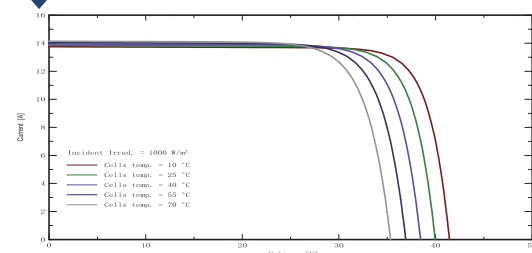
PACKING METHOD

Module Size	1722x1134x30mm
Container	40' HQ
Quantity Per Pallet	36
Number Of Pallets Per Container	26/23(US)
Quantity Per Container	936/828(US)

I-V/P-V CURVE AT DIFFERENT IRRADANCE(440W)



I-V CURVE AT DIFFERENT WORKING TEMPERATURE(440W)



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Tidesolar Philippines Corporation reserves the right to make any adjustment to the information described herein at any time without notice.