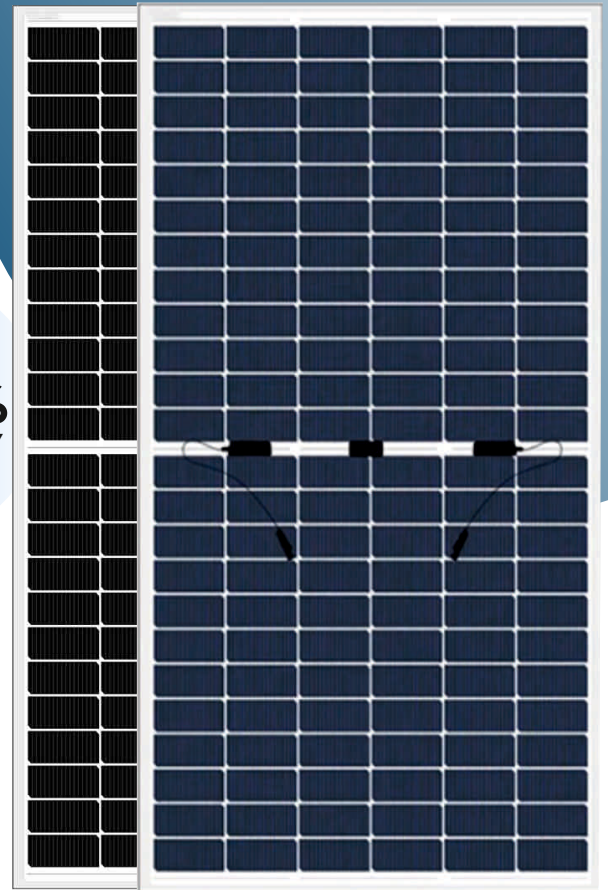


# GIGA SERIES

TOPCON Dual glass bi-facial module



UP TO  
**23.30%**  
EFFICIENCY

TOPCON PV MODULES  
MBB N-TYPE TOPCON HALF-CUT CELL

555 - 600 W RANGE

## HIGHLIGHTS



MBB cell technology – excellent antimicrocracking performance with more balanced interior stress; grid pattern current path, lower cost



Longer Product life and performance



Excellent PID resistance



Modules made with 10 BB & 16 BB

## KEY FEATURES



Higher Efficiency



Half-Cut Cell Design With Multi Bus Bar Technology



Round Ribbon Technology



PID Resistance



3-Stage EL Testing



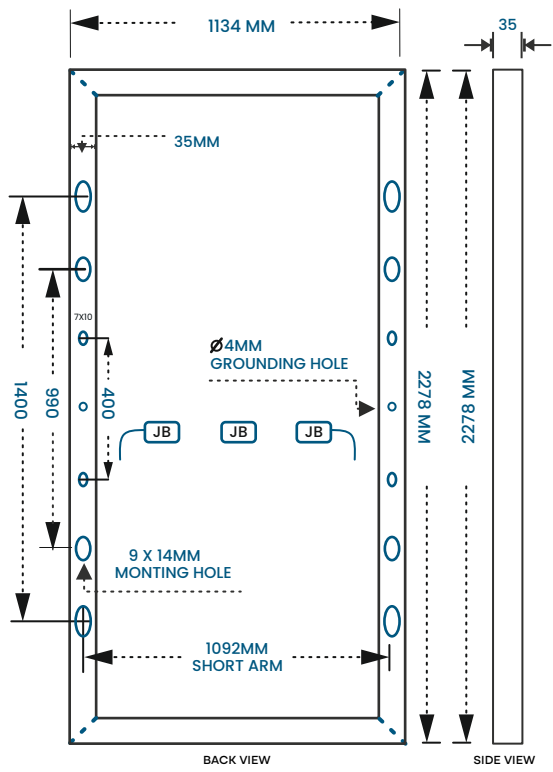
100% hi-pot tested For safety



Only Positive Power Output Tolerance



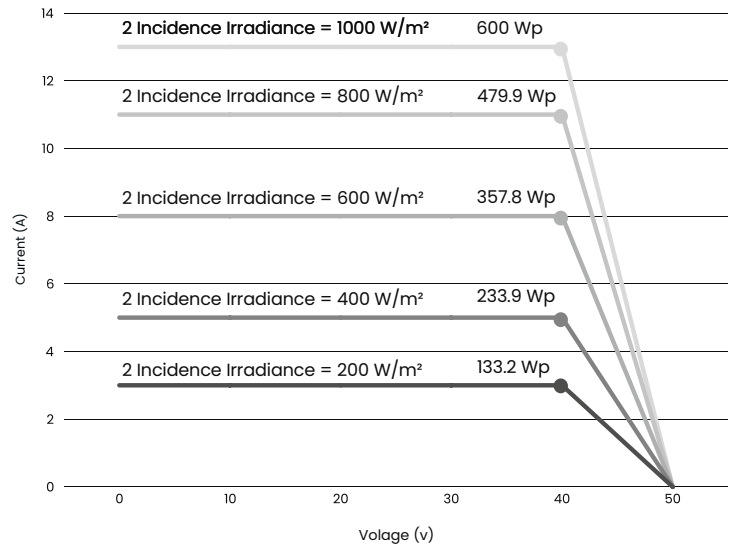
1500 V Module



# Technical Data

## N type topcon half cut cell

Cell temp: 25°C



Electrical Parameter at Standard Test Condition (STC)										
MODEL TYPE	SASA 555T-144	SASA 560T-144	SASA 565T-144	SASA 570T-144	SASA 575T-144	SASA 580T-144	SASA 585T-144	SASA 590T-144	SASA 595T-144	SASA 600T-144
MAXIMUM POWER (P <sub>max</sub> ) Wp	555	560	565	570	575	580	585	590	595	600
MAXIMUM POWER VOLTAGE (V <sub>mp</sub> ) V	43.86	43.90	43.95	43.99	44.03	44.07	44.11	44.15	44.19	44.23
MAXIMUM POWER CURRENT (I <sub>mp</sub> ) A	12.66	12.76	12.86	12.96	13.06	13.17	13.27	13.37	13.47	13.57
OPEN CIRCUIT VOLTAGE (V <sub>oc</sub> ) V	51.14	51.18	51.22	51.26	51.30	51.34	51.38	51.42	51.46	51.50
SHORT CIRCUIT CURRENT (I <sub>sc</sub> ) A	13.30	13.40	13.50	13.61	13.71	13.83	13.93	14.04	14.14	14.24
MODULE EFFICIENCY (-) %	21.48	21.68	21.87	22.07	22.26	22.45	22.65	22.84	23.03	23.23

Under Standard Test Condition (STC) of Irradiance of 1000 w/m<sup>2</sup>, Spectrum AM 1.5 and Cell Temperature of 25°C

Electrical Parameter at NOCT										
MODEL TYPE	SASA 555T-144	SASA 560T-144	SASA 565T-144	SASA 570T-144	SASA 575T-144	SASA 580T-144	SASA 585T-144	SASA 590T-144	SASA 595T-144	SASA 600T-144
MAXIMUM POWER (P <sub>max</sub> ) Wp	408	412	416	419	423	427	430	434	438	442
MAXIMUM POWER VOLTAGE (V <sub>mp</sub> ) V	40.70	40.74	40.78	40.82	40.86	40.89	40.93	40.97	41.02	41.06
MAXIMUM POWER CURRENT (I <sub>mp</sub> ) A	10.02	10.11	10.19	10.27	10.35	10.43	10.51	10.59	10.67	10.76
OPEN CIRCUIT VOLTAGE (V <sub>oc</sub> ) V	47.79	47.82	47.86	47.90	47.93	47.97	48.01	48.06	48.11	48.17
SHORT CIRCUIT CURRENT (I <sub>sc</sub> ) A	10.60	10.68	10.76	10.85	10.93	11.02	11.10	11.19	11.28	11.36
MODULE EFFICIENCY (-) %	15.80	15.95	16.09	16.23	16.38	16.52	16.66	16.76	16.92	17.07

Under NOCT Irradiance of 800 w/m<sup>2</sup>, Air Mass 1.5 and Ambient Temperature of 20°C and Wind Speed 1 m/s

Electrical Parameter with Back Side Power Gain											
BACKSIDE POWER GAIN		SASA 555T-144	SASA 560T-144	SASA 565T-144	SASA 570T-144	SASA 575T-144	SASA 580T-144	SASA 585T-144	SASA 590T-144	SASA 595T-144	SASA 600T-144
10%	MAXIMUM POWER (P <sub>max</sub> ) Wp	605	616	621	627	632	638	643	649	654	660
	MODULE EFFICIENCY (-) %	23.63	23.85	24.06	24.27	24.48	24.70	24.91	25.12	25.34	25.55
20%	MAXIMUM POWER (P <sub>max</sub> ) Wp	666	672	678	684	690	696	702	708	714	720
	MODULE EFFICIENCY (-) %	25.78	26.01	26.25	26.48	26.71	26.94	27.18	27.41	27.64	27.87
30%	MAXIMUM POWER (P <sub>max</sub> ) Wp	721	728	734	741	747	754	760	767	773	780
	MODULE EFFICIENCY (-) %	27.93	28.18	28.43	28.68	28.94	29.19	29.44	29.69	29.94	30.19

The Bifacial Power Gain are Dependant on the Power Plant design and location

Mechanical Data	
CELL TYPE	N type Topcon Half Cut Cell
CELL ARRANGEMENT	144 (6X12+6X12)
DIMENSIONS (L/W/H)	2278MM/1134MM/35MM
WEIGHT	32.5 Kg
SUPERSTRATE (GLASS)	AR coating Half Tempered 2.0mm Thickness
FRAME MATERIAL	Silver Anodized Aluminium Frame
CELL ENCAPSULANT	high volume resistivity and low MVTR
JUNCTION BOX	IP 68 rated, 3 diodes, split junction box
CABLE	Solar cable 300mm length, 4mm 2
CONNECTOR	2nos Black MC4 Compatible Connector
MECHANICAL LOAD TEST	Snow load 5400 Pa, Wind load 2400 Pa
APPLICATION CLASS	Class A
ELECTRICAL SAFETY	Class II
FIRE SAFETY	Class C (Type I)

Temperatures Co-efficient and Operating Condition	
Nominal Operating Cell Temperatur (NOCT)	45°C ± 2°C
Temperature coefficient of P <sub>mp</sub>	-0.42%/°C
Temperature coefficient of V <sub>oc</sub>	-0.35%/°C
Temperature coefficient of I <sub>sc</sub>	+0.07%/°C
Operating temperature Range	-40°C To +85°C
Maximum System Voltage	1500 VDC (IEC & UL)
Maximum Series Fuse Rating	30A

PACKING CONFIGURATION		
Container Lorry	20"GP	40"HQ
Pallet per Container	10	20
Modules per Container	280	560
Pcs per Pallet : 28		

NOTE:	
<ul style="list-style-type: none"> <li>Technical data and specification are mention above is subject to change without prior notice</li> <li>The Electrical data given here is for reference purpose only</li> <li>Please Confirm your exact requirements while placing your order</li> </ul>	
<ul style="list-style-type: none"> <li>12 Years Product Warranty, 30 Years Power Output Warranty</li> </ul>	
<ul style="list-style-type: none"> <li><b>CERTIFICATES</b> : IS 14286 / IEC 61215, IEC 61730-1, IEC 61730-2 BIS AND ALMM APPROVED</li> </ul>	