



# EFFICIENT EXCELLENT ENERGY++

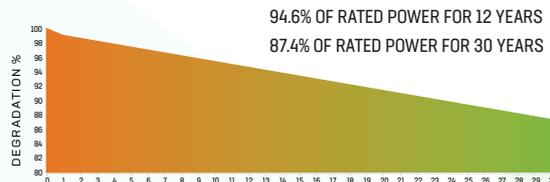
HIGH EFFICIENCY  
TOPCON  
PV MODULE  
Celestia



BIFACIAL PV MODULES  
N -TYPE 144 HALF CUT  
575 - 600 Wp



<b>M10</b> CELLS	<b>NH S</b> AMMONIA RESISTANT	 SALT CORROSION RESISTANCE	 HIGH RELIABILITY & DURABILITY
<b>144</b> HALF CELLS	 UV RESISTANT	 PID RESISTANT	 SAND RESISTANT



## 16BB HALF - CUT CELL TECHNOLOGY

New circuit design, lower internal current, lower resistive losses, energy yield is higher.

## LOWER THE RISK OF HOT SPOT

Special circuit design with a much lower hot spot temperature.

## EXCELLENT QUALITY & ENHANCED RELIABILITY

More than 14+ years' experience of manufacturing and intensive 40+ quality tests above the IEC standard ensures reliable modules.

## SUPER STRONG FRAME

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) with 15 microns anodization thickness.

## EXCELLENT LOW LIGHT & ANTI - PID PERFORMANCE

Tested 3 times of IEC TS 62804.



SWELECT's solar modules meet global quality and safety standards, including IEC, UL, CAN, BIS, BEE & RoHS.

## Comprehensive Product & System Certificates\*

- ✓ BIS Certified (IS 14286 & IS/IEC 61730 - 1&2)
- ✓ IEC 61215: Design qualification and type approval
- ✓ IEC 61730: Module safety qualification
- ✓ IEC TS 62804: Potential Induced Degradation (PID)
- ✓ IEC 61701: Salt Mist Corrosion Test
- ✓ IEC 62716: Ammonia Corrosion Test
- ✓ ISO 9001: Quality Management System
- ✓ ISO 14001: Environmental Management System
- ✓ ISO 45001: Occupational Health and Safety Management Systems
- ✓ ISO 50001: Energy Management System

Electrical Characteristics

MODEL NUMBER	RATE POWER (P <sub>max</sub> ) Wp	OPEN CIRCUIT VOLTAGE (V <sub>oc</sub> ) V	MAXIMUM POWER VOLTAGE (V <sub>mp</sub> ) V	SHORT CIRCUIT CURRENT (I <sub>sc</sub> ) A	MAXIMUM POWER CURRENT (I <sub>mp</sub> ) A	MODULE EFFICIENCY (η)%
SWT15BG6575	575	51.33	42.54	14.22	13.52	22.26
	10%	51.33	42.54	15.64	14.87	24.48
	25%	51.33	42.54	17.78	16.90	27.82
	40%	51.33	42.54	19.91	18.93	31.16
SWT15BG6580	580	51.46	42.68	14.28	13.59	22.45
	10%	51.46	42.68	15.71	14.95	24.70
	25%	51.46	42.68	17.85	16.99	28.07
	40%	51.46	42.68	19.99	19.03	31.43
SWT15BG6585	585	51.59	42.83	14.34	13.66	22.65
	10%	51.59	42.83	15.77	15.03	24.91
	25%	51.59	42.83	17.93	17.08	28.31
	40%	51.59	42.83	20.08	19.12	31.70
SWT15BG6590	590	51.72	42.98	14.40	13.73	22.84
	10%	51.72	42.98	15.84	15.10	25.12
	25%	51.72	42.98	18.00	17.16	28.55
	40%	51.72	42.98	20.16	19.22	31.98
SWT15BG6595	595	51.85	43.13	14.46	13.80	23.03
	10%	51.85	43.13	15.91	15.18	25.34
	25%	51.85	43.13	18.08	17.25	28.79
	40%	51.85	43.13	20.24	19.32	32.25
SWT15BG6600	600	51.98	43.28	14.52	13.87	23.23
	10%	51.98	43.28	15.97	15.26	25.55
	25%	51.98	43.28	18.15	17.34	29.03
	40%	51.98	43.28	20.33	19.42	32.52

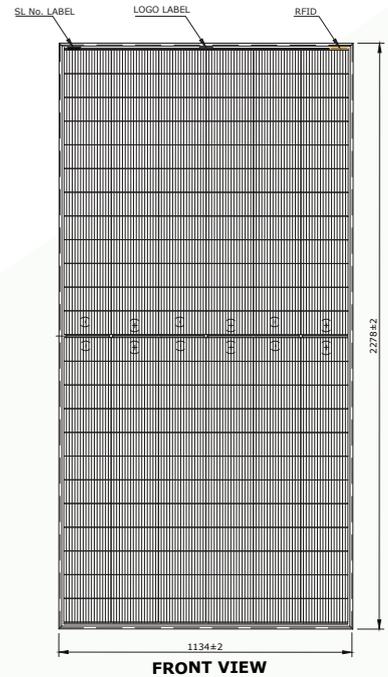
TEMPERATURE RATINGS	
NOCT	45°C ±2°C
Tc of V <sub>oc</sub>	-0.216%/°C
Tc of I <sub>sc</sub>	+0.041%/°C
TC of Power	-0.291%/°C
Operating Range	-40°C to +85°C
Power Binning	-0/+4.99W

MAXIMUM RATINGS	
System Voltage	1500 V <sub>dc</sub>
Fuse Rating	30 A
Application / Safety	Class A; Protection Class II Fire - C; Type 4
Snow Load	5400 Pa
Wind Load	2400 Pa
Bifaciality Factor	80±5%

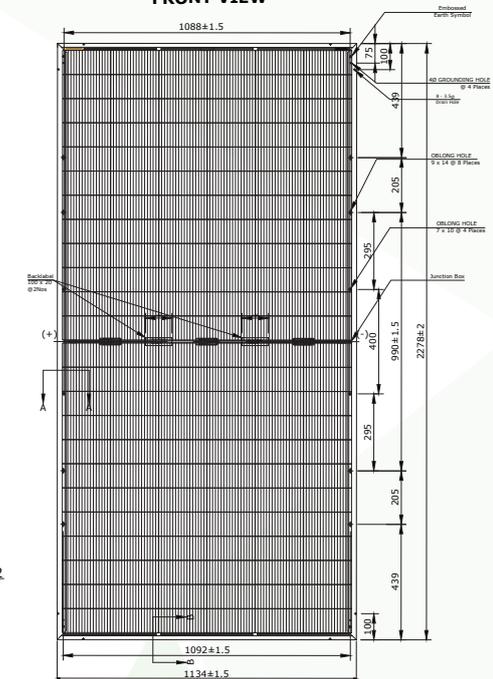
CONSTRUCTION	
Cell / Matrix	N-Type Topcon Cells; 144, 2 x (12 x 6)
Dimension	2278x1134x35 mm
Weight	33 kg
Glass	ARC; Low Iron; Semi Tempered; High Light Transmission; 2.0 mm
Encapsulation	High Volume Resistivity and Low MVTR
Substrate	Low Iron; Semi Tempered; High Light Transmission; 2.0mm
Frame	15µ Anodized Aluminium Alloy; Twin Wall Profile
Diode	Schottky Bypass Diodes
Locking	Corner Key Type
Junction Box	IP68; Junction Box
Cable	4 mm <sup>2</sup> ; (+ ve) 300mm, (- ve) 250mm Cable Length (Customized cable length available on request)
Connector	MC4 Compatible

PACKING CONFIGURATION		
Container	20 feet (HC)	40 feet (HC)
Pieces per Pallet	31	31
Pallets per Container	8	20
Pieces per Container	248	620

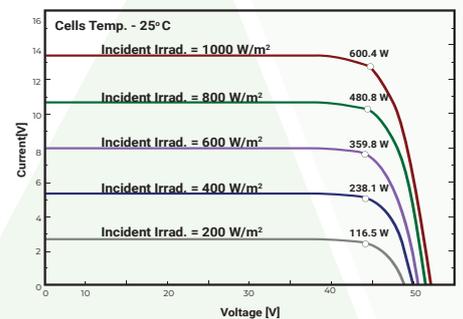
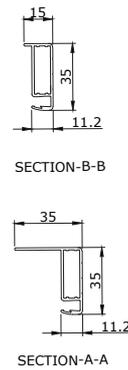
Note: Design & Specifications are subjected to change without notice. Electrical Parameters measured at STC only (at 25°C, 1000 W/m<sup>2</sup>). Test uncertainty for Pmp ±3%. Please refer to installation manual and strictly adhere to instruction / guidelines to qualify for warranty terms.



FRONT VIEW



BACK VIEW



I-V Curve of 600W at 25°C cell temp and different Irradiance level

Celebrating **40** years swelectes.com

**12** YEARS WARRANTY FOR MATERIALS & PROCESSING

**30** YEARS WARRANTY FOR LINEAR POWER OUTPUT

SWELECT ENERGY SYSTEMS LIMITED

SWELECT HOUSE

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PV MODULE MANUFACTURING PLANT

SWELECT HHV SOLAR PHOTOVOLTAICS PRIVATE LIMITED

No.169,166, Sembagoundan Pudur, Kuppeplayam Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu - 641 107

SCAN QR CODE FOR PRODUCT CATALOGS



**swelect**  
Stay powerful when sun shines. And thereafter...