

**550** Watt

**NON DCR**



**Extra Power**



**Extra Life**



**Double-Sided Power Generation**



**Excellent anti-LeTID & anti-PID performance**



**Lower temperature coefficient**



**Lower LCOE & system cost**

N-type Green Solar Sunup Series TOPCon Bifacial Modules have the best efficiency >22% with higher power generation and reliable characteristic resistance. These panels provide efficient production under extreme weather conditions along with bifaciality with lower degradation. N-type Green Solar Sunup Series TOPCon Bifacial Modules generate significantly more power per watt (kWh/kW) over 30 years (Long life) of use compared to PERC panels.

**Module Efficiency >22%**

**Power Tolerance up to 4.99W**

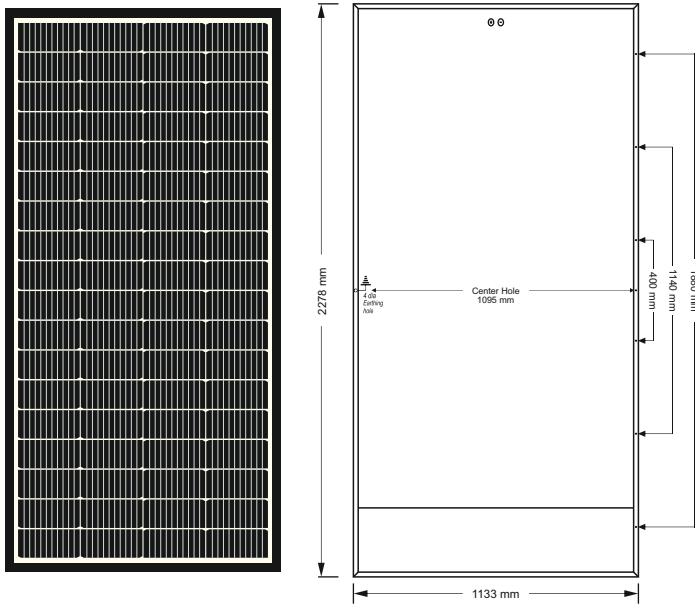
**30 Years Performance Warranty<sup>1</sup>**

**10 Years Product Warranty**

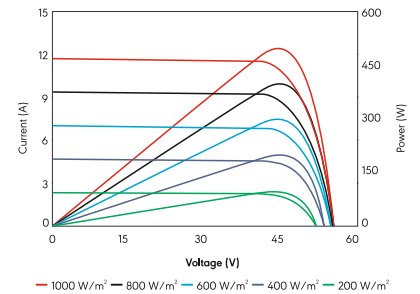
**PID Resistant**

**Outstanding Aesthetic Design**

# Mechanical Dimensions



I-V Curves of PV Module (for Ref)



# Electrical Data

Module Type	525		530		535		540		545		550		555		560	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	525	390.46	530	393.99	535	397.67	540	401.28	545	405.17	550	408.8	555	412.53	560	416.29
Maximum Power Voltage (Vmp)	41.54	39	41.76	39.2	41.99	39.42	42.21	39.63	42.46	39.86	42.68	40.07	42.91	40.28	43.14	40.5
Maximum Power Current (Imp)	12.64	10.01	12.69	10.05	12.74	10.09	12.79	10.13	12.84	10.16	12.88	10.2	12.93	10.24	12.98	10.28
Open-circuit voltage (Voc)	49.8	45.77	49.94	45.92	50	46.06	50.16	46.2	50.3	46.35	50.49	46.51	50.62	46.66	50.75	46.81
Short-circuit current (Isc) (A)	13.45	10.74	13.5	10.77	13.56	10.81	13.6	10.84	13.65	10.88	13.69	10.91	13.74	10.94	13.78	10.98
Module Efficiency STC (%)	20.32		20.51		20.71		20.09		21.09		21.29		21.48		21.67	
Operating Temperature (°C)	-40°C ~ +85°C															
Maximum System Voltage	1500 V DC (IEC)															
Maximum series fuse rating	20A															

# Bifacial Output - Backside Power Gain

Module Type	525	530	535	540	545	550	555	560
10 % Gain	577.5	583.0	588.5	594.0	599.5	605.0	610.5	616.0
15 % Gain	603.8	609.5	615.3	621.0	626.8	632.5	638.3	644.0
20 % Gain	630.0	636.0	642.0	648.0	654.0	660.0	666.0	672.0
25 % Gain	656.3	662.5	668.8	675.0	681.3	687.5	693.8	700.0
30 % Gain	682.5	689.0	695.5	702.0	708.5	715.0	721.5	728.0

- ▶ STC ☀ Irradiance 1000 W/m<sup>2</sup> 📡 Cell Temperature 25°C ☁ AM = 1.5
- ▶ NOCT ☀ Irradiance 800 W/m<sup>2</sup> 📡 Ambient Temperature 20°C ☁ AM = 1.5 🌀 Wind Speed = 1 m/s

# Mechanical Data

Specification	Data
Cell type	Half cut MONO PERC
Cell arrangement	72 Mono PERC - 144 Half cells
Dimensions	2278 x 1134 x 35 mm
Mounting Hole	"Y- 400/1140/1880 mm X - 1093 mm"
Weight	29 Kg
Front Cover	3.2 mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
cable	4 mm <sup>2</sup> (IEC) - Length 0.35 mtr (Potrait)/1.4mtr (Landscape)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs
Backsheet	Transparent

# Temperature Characteristic

Specification	Data
Temperature Co-efficient (Pmax)	-0.36% /°C
Temperature Co-efficient (Voc)	-0.36% /°C
Temperature Co-efficient (Isc)	+0.06% /°C
Nominal Operating Cell Temperature	42 ± 2°C

\* The above data is liable to change without prior notice  
 \* Warranty applicable as per standard warranty terms as available on [www.myGreenSolar.co.in](http://www.myGreenSolar.co.in)

**Matri Shree Techno Industries**  
 (Premium PV Module Manufacturer)