



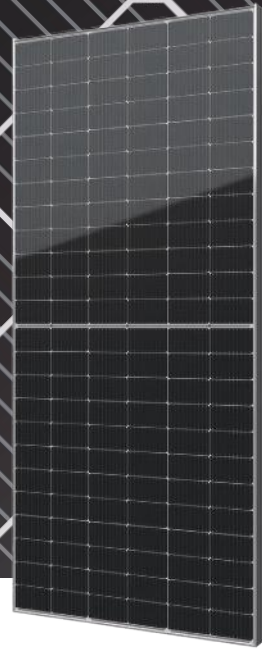
# PERC555

## Mono PERC Half-Cut Module

### 535W – 555W

**21.5%**

Module efficiency up to 21.5%



### Features



#### 10BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss

Ga doped wafer, attenuation  $\leq 2\%$  (1st year) /  $\leq 0.55\%$  (Linear)



#### Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



#### Lower LCOE

2% more power generation, lower LCOE



Anti  
**PID**

#### Excellent Anti-PID performance

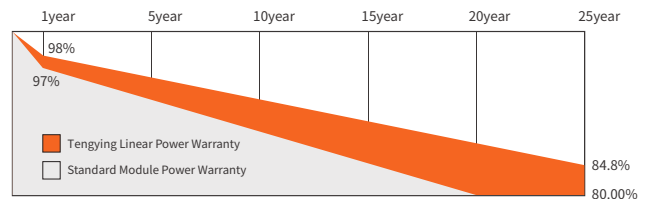
3 times of industry standard Anti-PID test



#### IP68 junction box

High waterproof level

### Performance Warranty



Within the first year from the date of installation and normal operation, the output power shall not be less than 98% of the product's minimum output power as set forth in the specifications, Afterwards, maximum 0.55% output decrease per year. After 25 years, the product's output power shall not be less than 84.8% of its minimum output power as set forth in the specifications.

### Comprehensive Qualifications & Certifications

- ★ ISO 9001:2015 Quality Management System
- ★ ISO 14001:2015 Environment Management System
- ★ ISO 45001: 2018 Occupation Health Safety Management System
- ★ TUV NORD Certification



## Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	PERC535	PERC540	PERC545	PERC550	PERC555
Max-Power(Pm)	W	535	540	545	550	555
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	41.50	41.65	41.80	41.95	42.10
Max-Power Current(I <sub>m</sub> )	A	12.89	12.97	13.04	13.11	13.18
Open-Circuit Voltage(Voc)	V	49.35	49.50	49.65	49.80	49.95
Short-Circuit Current(I <sub>sc</sub> )	A	14.00	14.07	14.14	14.20	14.26
Module Efficiency(η <sub>m</sub> )	%	20.7	20.9	21.1	21.3	21.5

STC: AM=1.5, Irradiation 1000W/m<sup>2</sup>, Module Temperature 25°C

## Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	PERC535	PERC540	PERC545	PERC550	PERC555
Max-Power(Pm)	W	401	405	409	413	417
Max-Power Voltage(Vm)	V	38.25	38.40	38.55	38.70	38.85
Max-Power Current(I <sub>m</sub> )	A	10.48	10.55	10.61	10.67	10.73
Open-Circuit Voltage(Voc)	V	46.25	46.40	46.55	46.70	46.85
Short-Circuit Current(I <sub>sc</sub> )	A	11.10	11.16	11.22	11.28	11.32

NMOT: Irradiation 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1m/s

## Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of P <sub>max</sub>	-0.35%/°C
Temperature coefficient of Voc	-0.26%/°C
Temperature coefficient of I <sub>sc</sub>	0.048%/°C

## Package

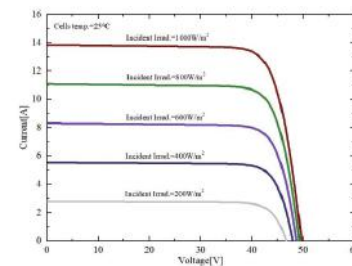
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	620	31
Platform Trailer	13m	682	31
Platform Trailer	17.5m	930	31

## Mechanical Characteristics

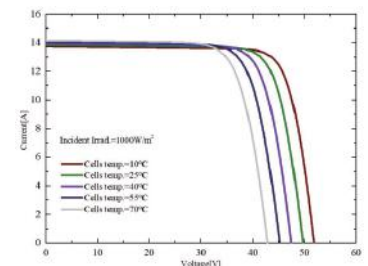
Dimension(L×W×H)	2278mm×1134mm×35mm
Weight	29.4kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	144(24x6) / 10BB Mono / Half-cell
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP68
Cable	4mm <sup>2</sup> ,350mm(+)/150mm(-) or Customized-Length
Connector	MC4 Compatible

## I-V Curve

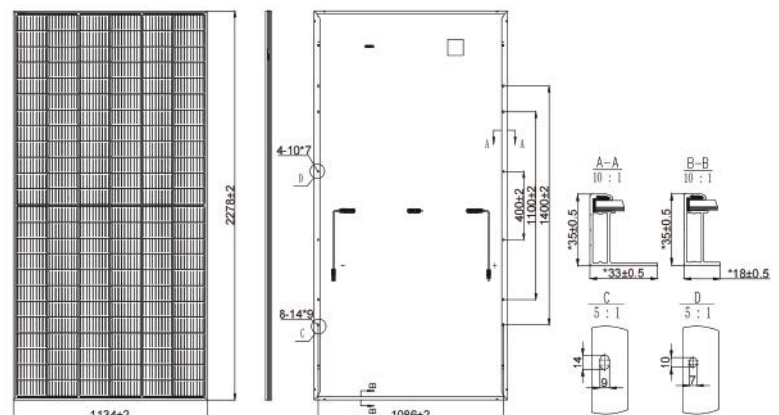
I-V Curves of PERC545 at different irradiance



I-V Curves of PERC545 at different cell temperature



## Module Size



## Operating Conditions

Max System Voltage	DC1500V(IEC)
Max Fuse Rated Current	25A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A