

Half Cell MBB 550 Watt

MONO-FACIAL MODULE

Positive power tolerance of 0~+3%

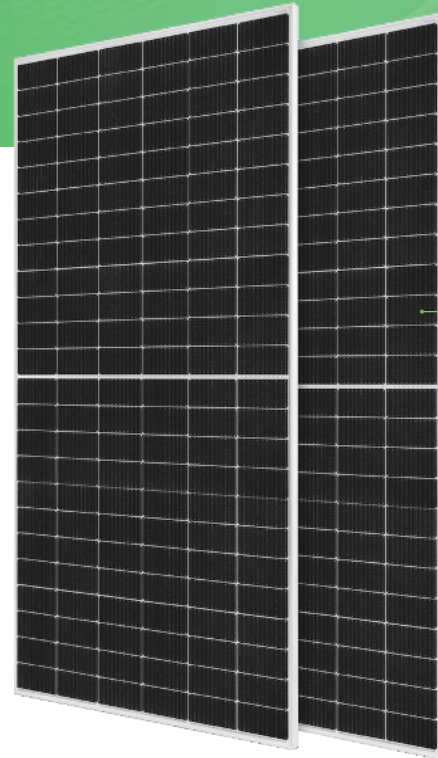
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Key Features



Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



Longer Life-time Power Yield

0.55% annual power degradation and 25 year linear power warranty.



Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



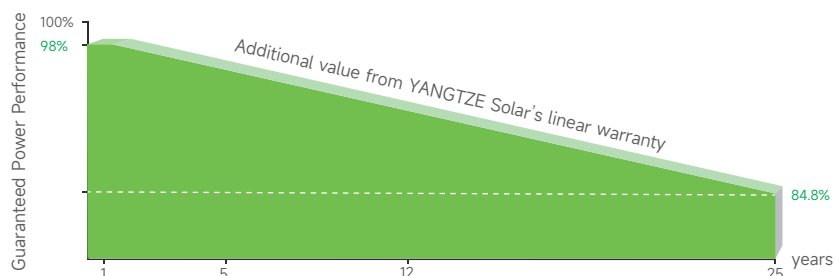
POSITIVE QUALITY™
Continuous Quality Assurance

Linear Performance Warranty

12 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years



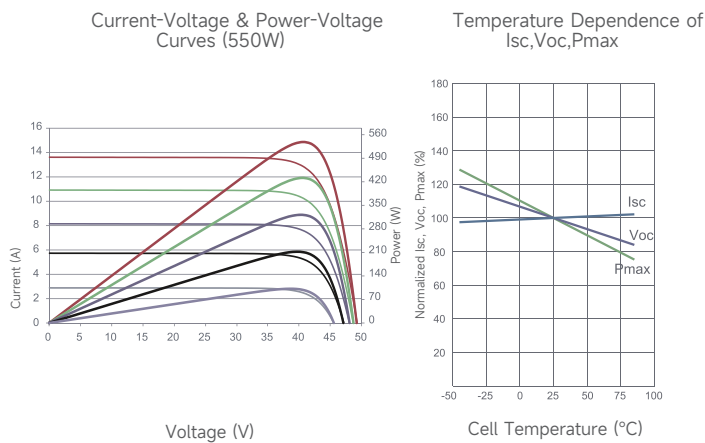
Specifications

Module Type	YS550M-144
Maximum Power (Pmax)	550W
Maximum Power Voltage (Vmp)	40.90V
Maximum Power Current (Imp)	13.45A
Open-circuit Voltage (Voc)	49.62V
Short-circuit Current (Isc)	14.03A
Module Efficiency STC (%)	21.33%
Operating Temperature(°C)	-40°C~+85°C
Maximum system voltage	1000/1500VDC (IEC)
Maximum series fuse rating	25A
Power tolerance	0~+3%
Temperature coefficients of Pmax	-0.35%/°C
Temperature coefficients of Voc	-0.28%/°C
Temperature coefficients of Isc	0.048%/°C
Nominal operating cell temperature (NOCT)	45±2°C

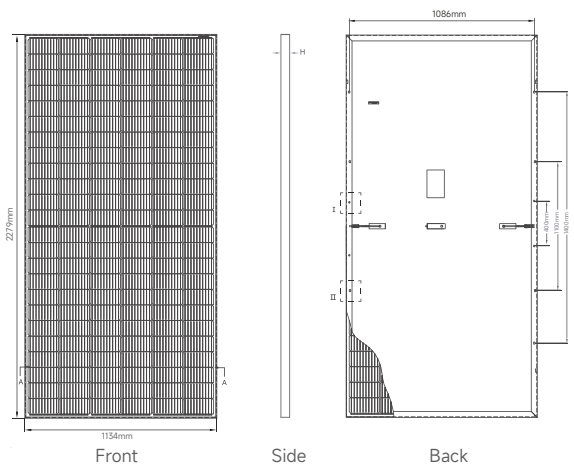
*STC: Irradiance 1000W/m² Cell Temperature 25°C
 NOCT: Irradiance 800W/m² Ambient Temperature 20°C

AM=1.5 Wind Speed 1m/s
 AM=1.5

Electrical Performance & Temperature Dependence



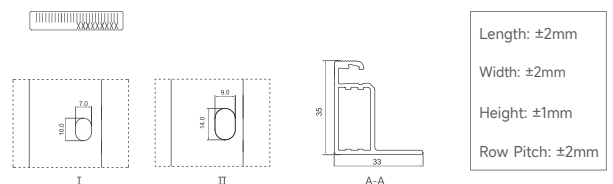
Engineering Drawings



Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container



Mechanical Characteristics

Cell Type	Dimensions	Front Glass	Junction Box
MBB Mono-crystalline	2279×1134×35mm (89.72×44.65×1.38 inch)	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	IP68 Rated