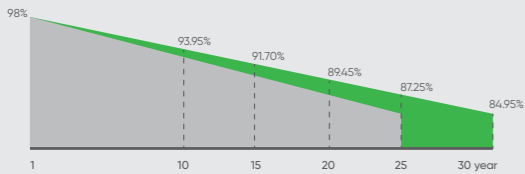


SunMaster 6

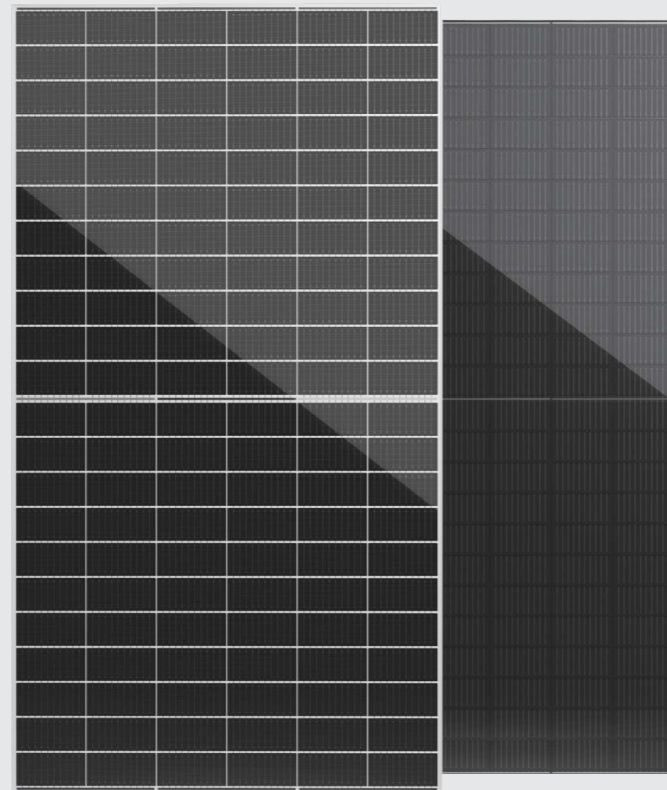
# SM640-665W(120)

210mm Cells Mono PERC with MBB & Half-cut Technology

## Quality Guarantee



▶ Sunmaster solar linear power output guarantee  
 ▶ Standard linear power output guarantee



Standard

All Black

**640-665W**      **-0.55%**      **30years**  
 power attenuation      Power warranty

## Comprehensive Products and System Certificates



IEC 61215 / IEC 61730 / CE / INMETRO

ISO 9001-

2015/Quality management system

ISO 14001-

2015/Standards for environmental management system

ISO 45001-

2018/International standards for occupational health & safety

## Key Features

- Optimal Process Design**  
166mm+9BB+Half-cut, higher power output
- Select Grade A Crystalline Silicon Solar Cells**  
Grade A crystalline silicon solar cells make high-power output with cost-effective
- Stable Generation Performance**  
Power attenuation: first year ≤2%, 0.55% per year from 2-25
- Process Upgraded**  
PID Resistant  
Lower risk of hot spot and stronger anti-PID ability
- Higher Power Gains and Lower Losses**  
Excellent low irradiance performance and low shadow loss
- Strong Environmental Adaptability and Great Durability**  
Certified by Dust-Sand, Salt-Mist, Ammonia etc. weather resistance tests and enhanced mechanical load: wind load (2400 Pa) and snow load (5400 Pa)

## Mechanical Characteristic

Cell type	Monocrystalline PERC 210*105mm
Number of cells	132 (6*22)
Module dimensions	2384x1303x35mm (93.86x51.30x1.38inches)
Weight	31.5kg (69.93lbs)
Front cover	3.2mm(0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	≥IP68 & UL
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), Portrait: 300mm (11.8inches); Landscape: 1400mm (55.12inches)
Connector	MC4 or MC4 compatible

## Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of Pmax	-0.36% /°C
Temperature Coefficients of Voc	-0.28% /°C
Temperature Coefficients of Isc	0.05% /°C

## Packaging

Standard packaging	31pcs/pallet
Module quantity per 20' container	124pcs
Module quantity per 40' container	527pcs(HQ)

## Electrical Characteristics at STC

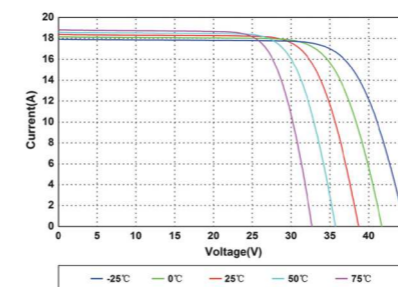
	640W	645W	650W	655W	660W	665W
Maximum Power (Pmax)	640W	645W	650W	655W	660W	665W
Open Circuit Voltage (Voc)	45.1V	45.3V	45.5V	45.7V	45.9V	46.1V
Short Circuit Current (Isc)	18.26A	18.31A	18.36A	18.41A	18.46A	18.51A
Voltage at Maximum Power (Vmp)	37.3V	37.5V	37.7V	37.9V	38.1V	38.3V
Current at Maximum Power (Imp)	17.16A	17.21A	17.26A	17.31A	17.36A	17.41A
Module Efficiency(%)	20.6	20.76	20.92	21.09	21.25	21.41
Operating Temperature	-40°C to +85°C					
Maximum System Voltage	1000V DC/1500V DC					
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)					
Maximum Series Fuse Rating	30A					
STC Irradiance 1000W/m <sup>2</sup> , Cell temperature 25°C, AM1.5; Tolerance of Pmax ±3%; Measurement Tolerance ±3%						

## Electrical Characteristics at NOCT

	480W	484W	488W	492W	496W	500W
Maximum Power (Pmax)	480W	484W	488W	492W	496W	500W
Open Circuit Voltage (Voc)	41.5V	41.7V	41.9V	42.1V	42.3V	42.5V
Short Circuit Current (Isc)	14.79A	14.83A	14.87A	14.91A	14.95A	14.99A
Voltage at Maximum Power (Vmp)	33.9V	34.1V	34.3V	34.5V	34.7V	34.9V
Current at Maximum Power (Imp)	14.16A	14.20A	14.23A	14.27A	14.30A	14.33A

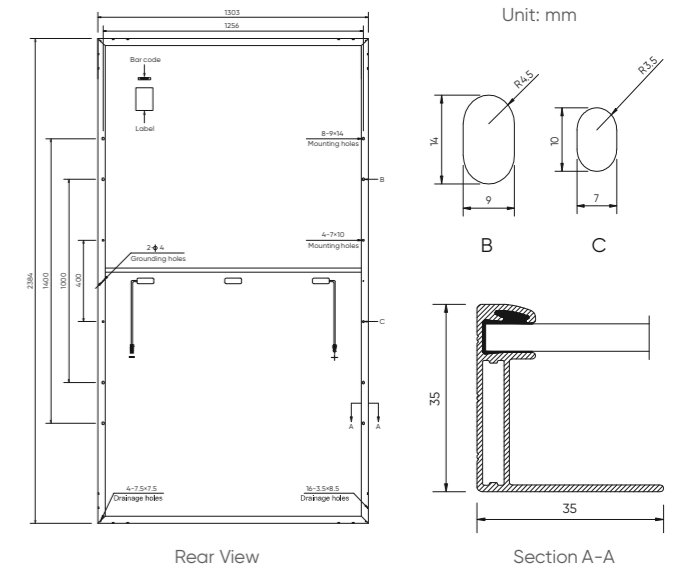
NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1m/s

## IV Curves

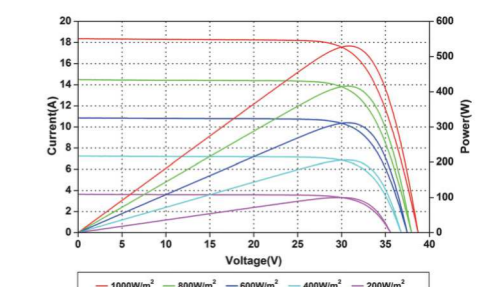


Current-Voltage and Power-Voltage Curves at Different Irradiances

## Engineering Drawings



Specifications in this datasheet are subject to change without prior notice.



Current-Voltage Curves at Different Temperatures