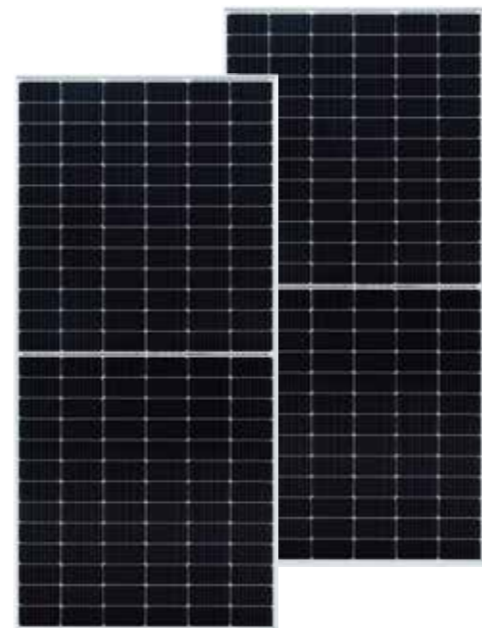




182mm PERC Mono Module

Introduction

Powered by high-efficiency PERCIUM cells, this series of high-performance modules provides the most cost-effective solution for lowering the LCOE of any PV systems large or small.



KEY FEATURES



10BB half-cut cell technology

10 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.



Higher Lifetime Power Yield:

0.55% annual power degradation
30 year linear power warranty



Light-weight design:

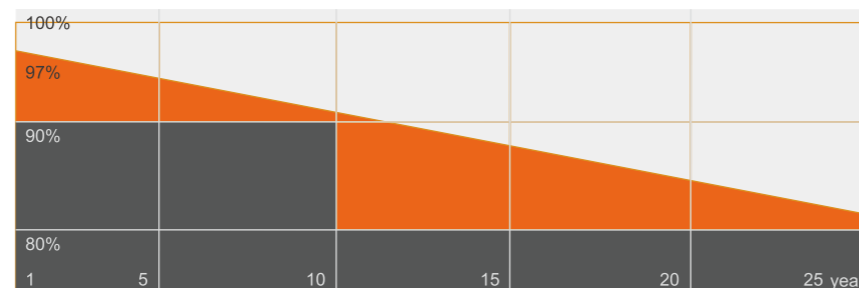
Light-weight design using transparent backsheet for easy installation and low BOS cost.



Better low-light performance:

Excellent performance in low-light environments (e.g. early morning, dusk, and cloud, etc.)

Superior Warranty



■ Futuresolar Linear Power Warranty ■ Industry Warranty

ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 ~ +3%)

Parameter	570	575	580	585	590
Maximum Power (Pmax/W)	570	575	580	585	590
Operating Voltage (Vmpp/V)	44	44.2	44.4	44.6	44.8
Operating Current (Imp/A)	12.96	13.01	13.07	13.12	13.17
Open-Circuit Voltage (Voc/V)	52.9	53.1	53.3	53.5	53.7
Short-Circuit Current (Isc/A)	13.69	13.75	13.81	13.87	13.94
Module Efficiency ηm(%)	20.3	20.5	20.7	20.9	21.0

Performance at NMOT

Parameter	420.2	423.7	427.6	431.1	434.6
Maximum Power (Pmax/W)	420.2	423.7	427.6	431.1	434.6
Operating Voltage (Vmpp/V)	41.1	41.3	41.4	41.6	41.8
Operating Current (Imp/A)	10.22	10.27	10.32	10.36	10.41
Open-Circuit Voltage (Voc/V)	49.4	49.6	49.8	50.0	50.2
Short-Circuit Current (Isc/A)	11.04	11.08	11.13	11.18	11.23

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Mono-Crystalline Silicon (10Busbar)
Cell Dimensions	182*182mm (7inches)
Cell Arrangement	156 (6*26)
Weight	31.5kg (69.45lbs.)
Module Dimensions	2472*1135*35mm (97.32*44.68*1.38inches)
Cable Length (Portrait)	(+300mm (11.81inches) / -300mm (11.81inches)
Cable Length (Landscape)	(+1200mm (47.24inches) / -1200mm (47.24inches)
Cable Cross Section Size	4mm ² (0.006inches ²)
Front Glass	3.2mm (0.13inches) High Transmission, Tempered AR Glass
No. of Bypass Diodes	3/6
Packing Configuration	31pcs/carton, 558pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

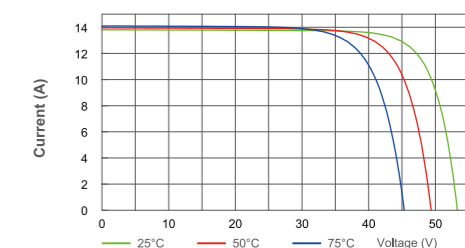
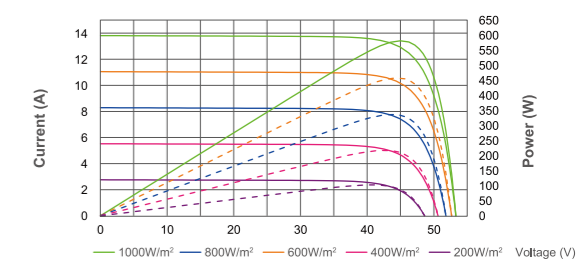
OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

I-V CURVE



TECHNICAL DRAWINGS

