



SR5-66HBD 655-675M

MAXIMUM EFFICIENCY %

21.7

POSITIVE POWER TOLERANCE WP

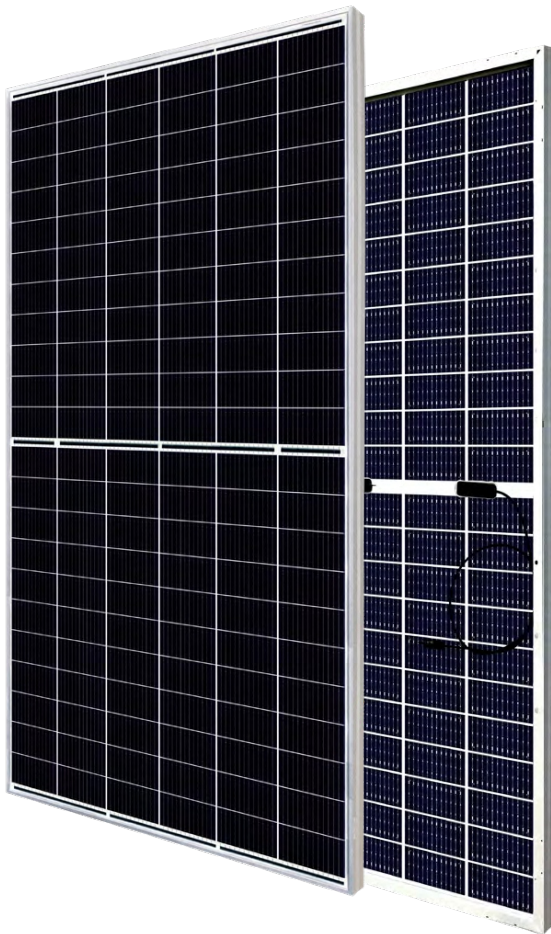
0~+5.00

CELLS

M12 132

MODULE TECHNOLOGY

TOPCon & MICRO GAP DESIGN
WITH IMPROVED SHADE TOLERANCE



ANTI-STAINING PERFORMANCE of the backsheet ensures reduced CLEANING FREQUENCY OF REAR SIDE of the module, leading to reduction in water usage



CYLINDRICAL TABBING WIRE is used to reduce the shadow on cell active area



UP TO 30% POWER GAIN from ground facing side depending upon the albedo of the ground surface



Implementation of bypass diodes in split JB series-parallel connections enable the module to perform in PARTIAL SHADOW CONDITIONS with respect to full-cell module



HIGHER NUMBER OF BUSBAR makes the PV modules less prone to loss in efficiency and increase tolerance to micro cracks



FIELD RELIABILITY is improved due to multiple contact points on the cell which lowers the cell stress during module fabrication



Due to LIGHT WEIGHT hassle-free installation of bifacial module is done with increased robustness also in east west direction



LCOE IS CUT BACK by using M12 size solar cell with adding more power output than lower size cell module



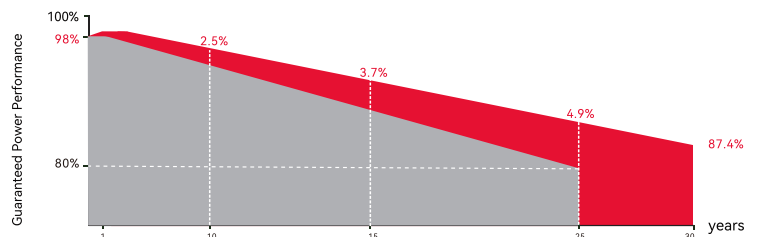
LOWER INTERNAL RESISTANCE boosts module power helping to achieve minimal power loss with respect to previous variant modules

Linear Performance Warranty



12 years Quality assurance

30 years Power output guarantee

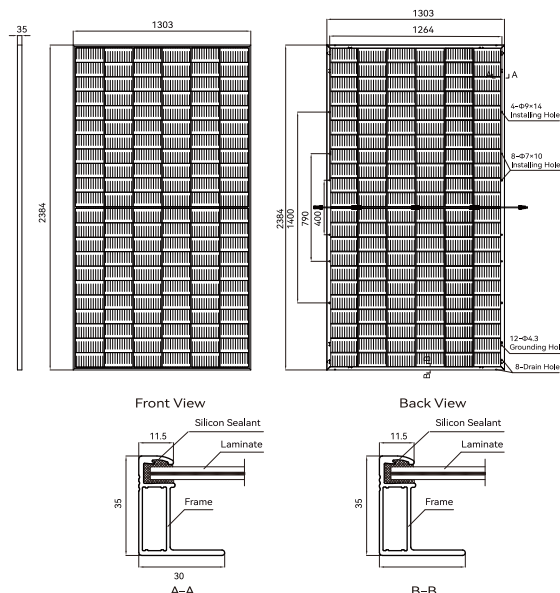


Industry Standard

MECHANICAL SPECIFICATION

Cell Type	N-type Monocrystalline
Cell Dimensions	210x210mm
Cell Arrangement	132 (6x22)
Weight	38.5kg (56.22lbs)
Module Dimensions	2384x1303x35mm (67.80x44.65x1.18inches)
Cable Length	Portrait 350/280mm or Customized Length
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
Glass	Dual glass, 2.0+2.0mm heat strengthened glass
No. of Bypass Diodes	3
Packing Configuration (1)	31pcs/carton, 527pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	Ip68
Connector	Mc4 EVO2

TECHNICAL DRAWINGS



ELECTRICAL PARAMETERS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	655	496	660	500	665	504	670	508	675	512
Operating Voltage (Vmpp/V)	38.1	35.3	38.3	35.5	38.5	35.7	38.7	35.9	38.9	36.1
Operating Current (Impp/A)	17.2	14.05	17.24	14.09	17.28	14.13	17.32	14.17	17.36	14.21
Open-Circuit Voltage (Voc/V)	45.2	42.4	45.4	42.6	45.6	42.8	45.8	43.0	46.0	43.2
Short-Circuit Current (Isc/A)	18.43	14.95	18.47	14.99	18.51	15.03	18.55	15.07	18.59	15.11
Module Efficiency η_m (%)	21.1		21.2		21.4		21.6		21.7	

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
 Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

REAR SIDE POWER GAIN(REFERENCE TO 410W FRONT)

Pmax gain	10%	15%	20%	25%	30%
Pmax/W	721	759	792	825	858
Vmpp/V	38.05	38.16	38.16	38.16	38.16
Impp/A	18.94	19.88	20.75	21.61	22.78
Voc/V	45.69	45.33	45.33	45.33	45.33
Isc/A	20.05	21.31	22.24	23.16	24.09

OPERATING CONDITIONS

Maximum System Voltage	1500V DC(IEC/UL)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	35A

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.340%/°C
Temperature Coefficient Voc	-0.265%/°C
Temperature Coefficient Isc	+0.050%/°C
NMOT	43±2°C



[1] Specifications included in this datasheet are subject to change without notice. SUNPLUS reserves the right of final interpretation.

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