

645~675W

AS645-675G12-132B

MORE POWER



Module power up to 675 W
Module efficiency up to 21.7 %



Up to 8.9 % lower LCOE
Up to 4.6 % lower system cost



Comprehensive LID /LeTID mitigation technology, up to 50% lower degradation

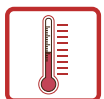


Compatible with mainstream trackers,
cost effective product for utility power plant



Better shading tolerance

MORE RELIABLE



40 °C lower hot spot temperature,
greatly reduce module failure rate



Minimizes micro-crack impacts



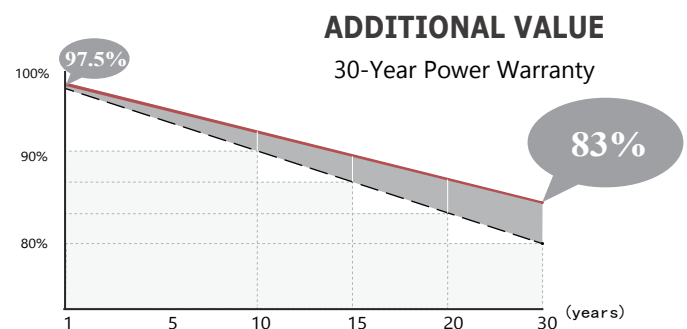
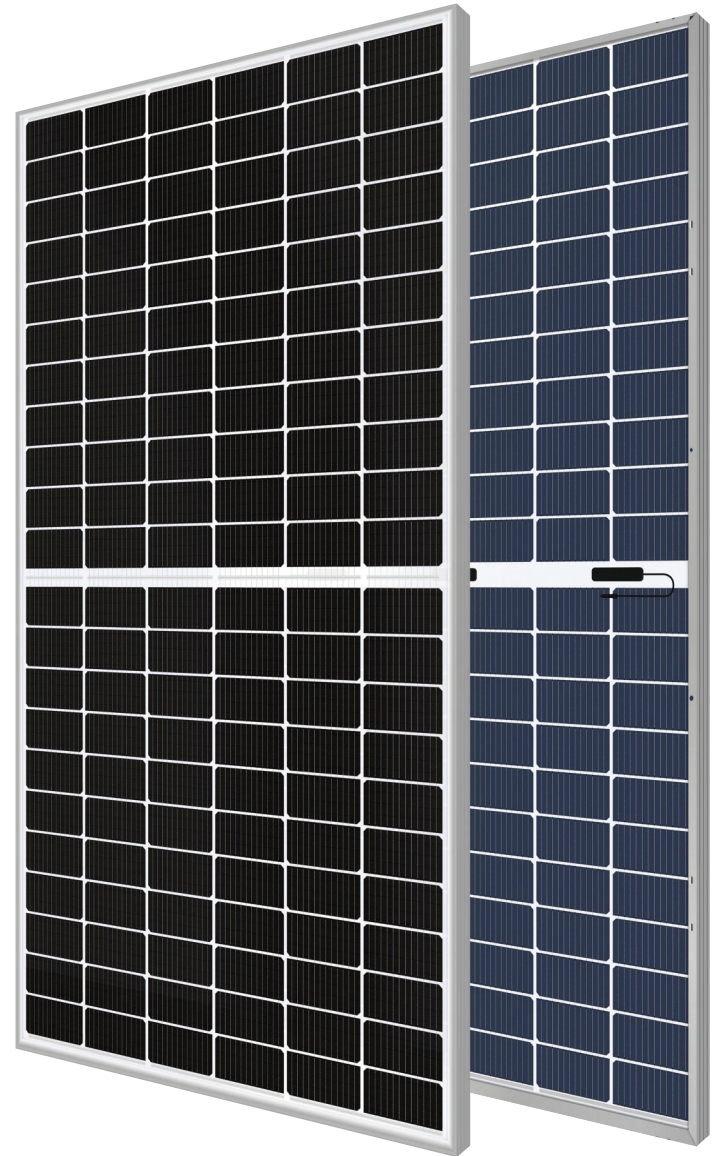
Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa



12-year Product Warranty



30-year Linear Performance Warranty



AS645-675G12-132B

645-675W

Half-Cell High Efficiency PV Module

Weight

38.7kgs±3%

Cells Type

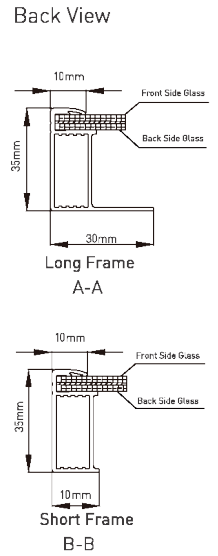
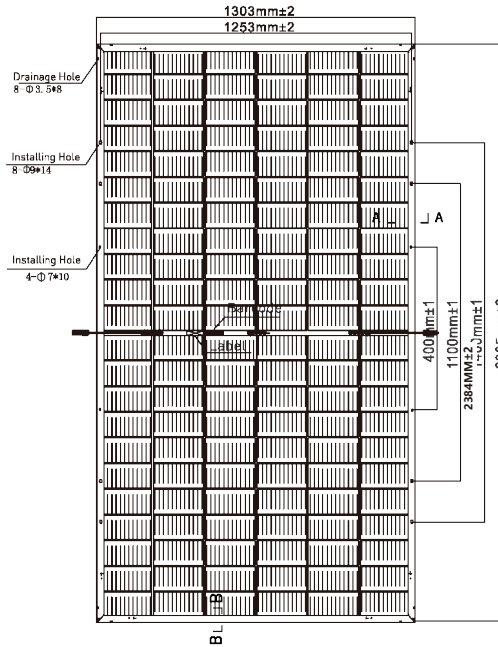
Mono 210x105mm

Dimension(LxWxT)

2384±2mmx1303±2mmx35±1mm

Packaging

31pcs/pallet, 558pcs/40HQ container



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	132(6x22)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	ClassII

ELECTRICAL CHARACTERISTICS STC:AM1.5 1000W/m² 25 °C NOCT:AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	S1 AS645G12-120		AS650G12-120		AS655G12-120		AS660G12-120		AS665G12-120		AS670G12-120		AS675G12-120	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	645	488	650	492	655	496	660	500	665	504	670	509	675	513
Open Circuit Voltage(Voc/V)	45.0	42.4	45.2	42.6	45.4	42.8	45.6	43.0	45.8	43.2	46.0	43.4	46.2	43.6
Short Circuit Current(Isc/A)	18.41	14.81	18.46	14.85	18.50	14.88	18.55	14.92	18.60	14.96	18.65	15.00	18.70	15.04
Voltage at Maximum Power(Vmp/V)	37.2	34.7	37.4	34.9	37.6	35.1	37.8	35.3	38.0	35.5	38.2	35.7	38.4	35.9
Current at Maximum Power(Imp/A)	17.34	14.05	17.38	14.09	17.42	14.13	17.46	14.18	17.50	14.22	17.54	14.27	17.58	14.31
Module Efficiency(%)	20.7		20.9		21.0		21.2		21.4		21.5		21.7	

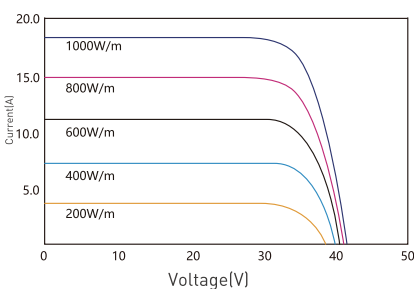
ELECTRICAL CHARACTERISTICS WITHDIFFERENT REAR SIDE POWER GAINS

Power Gain	Max Power(Pmax/W)	677	683	688	693	698	704	709
5%	Module Efficiency (%)	21.8%	22.0%	22.1%	22.3%	22.5%	22.7%	23.9%
10%	Max Power(Pmax/W)	710	715	721	726	732	737	743
10%	Module Efficiency (%)	22.9%	23.0%	23.2%	23.4%	23.6%	23.7%	24.0%
20%	Max Power(Pmax/W)	774	780	786	792	798	804	810
20%	Module Efficiency (%)	24.9%	25.1%	25.3%	25.5%	25.7%	25.9%	26.0%

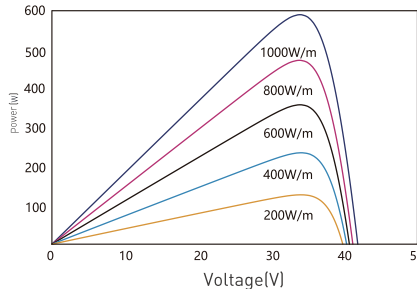
TEMPERATURE RATINGS

Norminal Operating Cell Temperature(NOCT)	43±2 °C
Temperature Coefficiency of Isc	+0.040%/°C
Temperature Coefficiency of Voc	-0.250%/°C
Temperature Coefficiency of Pmax	-0.340%/°C

I-V Curve at Different Irradiation



P-V Curve at Different Irradiation



I-V-P Curve at Different Temperature

