

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

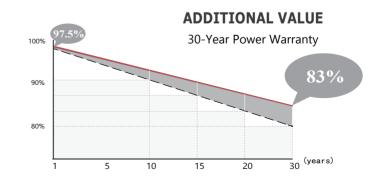


12-year Product Warranty



30-year Linear Performance Warranty

















AS645-675G12-132B

645-675W

Half-Cell High Efficiency PV Module

Weight

38.7kgs±3%

Cells Type

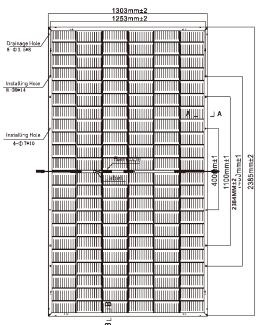
Mono 210x105mm

Dimension(LxWxT)

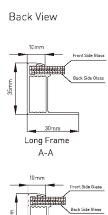
2384±2mmx1303±2mmx35±1mm

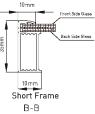
Packaging

31pcs/pallet, 558pcs/40HQ container



Remark: customized frame color and cable length available upon request





MECHANICAL SPECIFICATION

Cell

132(6x22) No.of cells

Cable Length

4mm²(IEC)

Cable Cross Section Size

300mm(+)/300mm(-)

Junction Box

IP68,3 diodes

Connector

MC Compatible

OPERATING PARAMETERS

Maximum System Voltage 1500VDC Operating Temperature -40℃~+85℃ **Maximum Series Fuse**

Maximum StaticLoad, Front 5400Pa(112lb/ft²) Maximum StaticLoad, Back 2400Pa(50lb/ft²)

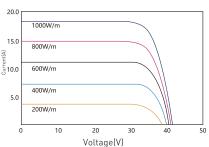
Safety Class ClaseIT

Commetter						50	incly Ciu	-				Clussin		
LECTRICAL 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 AS	645G12-120	AS6	50G12-120	AS6	55G12-120	AS660)G12-120	AS665	G12-120	AS6700	512-120	AS6750	G12-120
Testing Condition	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	2	21.2	2	1.4	2	1.5	2	1.7

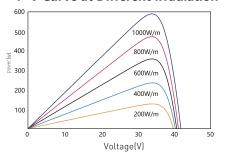
ELECTRICAL CHARACTERISTICS WITHDIFFERENT REAR SIDE POWER GAINS									
Maximum Power(Pmax/W)	677	683	688	693	698	704	709		
Module Efficiency (%)	21.8%	22.0%	22.1%	22.3%	22.5%	22.7%	23.9%		
Maximum Power(Pmax/W)	710	715	721	726	732	737	743		
Module Efficiency (%)	22.9%	23.0%	23.2%	23.4%	23.6%	23.7%	24.0%		
Maximum Power(Pmax/W)	774	780	786	792	798	804	810		
Module Efficiency (%)	24.9%	25.1%	25.3%	25.5%	25.7%	25.9%	26.0%		
	Module Efficiency (%) Maximum Power(Pmax/W) Module Efficiency (%) Maximum Power(Pmax/W)	Module Efficiency (%) 21.8% Maximum Power(Pmax/W) 710 Module Efficiency (%) 22.9% Maximum Power(Pmax/W) 774	Module Efficiency (%) 21.8% 22.0% Maximum Power(Pmax/W) 710 715 Module Efficiency (%) 22.9% 23.0% Maximum Power(Pmax/W) 774 780	Module Efficiency (%) 21.8% 22.0% 22.1% Maximum Power(Pmax/W) 710 715 721 Module Efficiency (%) 22.9% 23.0% 23.2% Maximum Power(Pmax/W) 774 780 786	Module Efficiency (%) 21.8% 22.0% 22.1% 22.3% Maximum Power(Pmax/W) 710 715 721 726 Module Efficiency (%) 22.9% 23.0% 23.2% 23.4% Maximum Power(Pmax/W) 774 780 786 792	Module Efficiency (%) 21.8% 22.0% 22.1% 22.3% 22.5% Maximum Power(Pmax/W) 710 715 721 726 732 Module Efficiency (%) 22.9% 23.0% 23.2% 23.4% 23.6% Maximum Power(Pmax/W) 774 780 786 792 798	Module Efficiency (%) 21.8% 22.0% 22.1% 22.3% 22.5% 22.7% Maximum Power(Pmax/W) 710 715 721 726 732 737 Module Efficiency (%) 22.9% 23.0% 23.2% 23.4% 23.6% 23.7% Maximum Power(Pmax/W) 774 780 786 792 798 804		

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

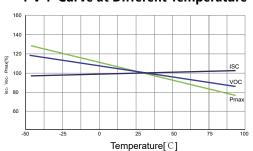
I-V Curve at Different Irradiation



P-V Curve at Different Irradiation



I-V-P Curve at Different Temperature





E-mail:info@amo-solar.com

Website:www.amo-solar.com

Address: Flat/RM 803 Chevalier House 45-51 Chatham Road South Tsim Sha Tsui, KL, HK Sales Center: Huijin International Building Xinjiekou Block, Nanjing, China Sales Center: No 68 Taihu Road, Baohe Dsitrict, Hefei, Anhui, China