



# 485~505W

AS485-505G12-100


## MORE POWER


**UP TO 21.10%** Maximize the light absorption area, module efficiency up to 21.10%.


 Low temperature coefficient (Pmax): -0.34 % /°C.

 Better shading tolerance.


## MORE RELIABLE


 Lower internal current, lower hot spot temperature.

 Cell crack risk limited in small region, enhance the module reliability.

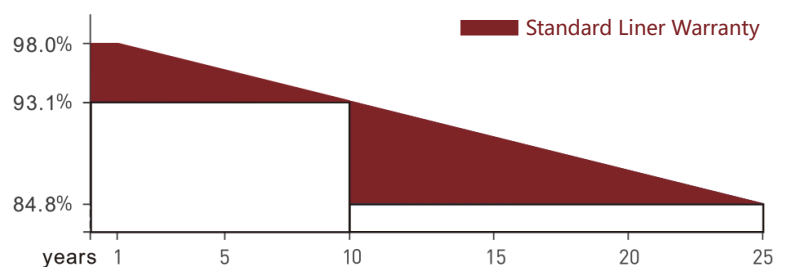
 Heavy snow load up to 5400 Pa, wind load up to 2400 Pa.



 **12** 12-year Product Warranty

 **25** 25-year Linear Performance Warranty

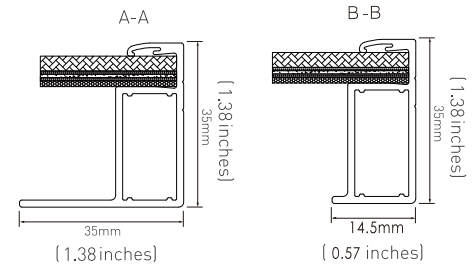
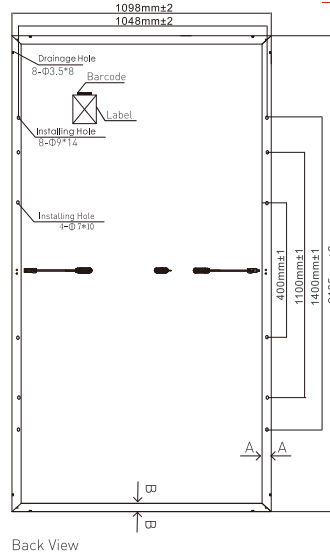
## Linear Performance Warranty



**AS485-505G12-100**

# 485-505W

Half-Cell High Efficiency PV Module

**Weight**
**26.5kg±3%**
**Cells Type**
**Mono 210x105mm**
**Dimension (LxWxT)**
**2185±2mmx1098±2mmx35±1mm**
**Packaging**
**31pcs/pallet, 620pcs/40HQ container**


Remark: customized frame color and cable length available upon request

**MECHANICAL SPECIFICATION**

Cell	Mono
No.of cells	100(5x20)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm <sup>2</sup> (IEC)
Junction Box	IP68Rated,3diodes
Connector	MC4 Compatible

**OPERATING PARAMETERS**

Maximum System Voltage	1500VDC
Operating Temperature	-40℃ ~ +85℃
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Safety Class	Class II

**ELECTRICAL CHARACTERISTICS**

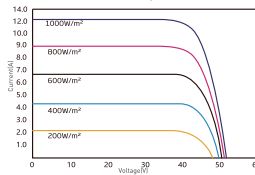
 STC:AM1.5 1000W/ m<sup>2</sup> 25℃ NOCT :AM1.5 800W/ m<sup>2</sup> 20℃ 1m/s Test uncertainty for Pmax ±3%

Module Type	AS485G12-100		AS490G12-100		AS495G12-100		AS500G12-100		AS505G12-100	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	485	367	490	371	495	375	500	379	505	382
Open Circuit Voltage(Voc/V)	33.90	31.90	34.10	32.10	34.30	32.30	34.50	32.50	34.70	32.70
Short Circuit Current(Isc/A)	18.31	14.74	18.39	14.81	18.47	14.88	18.55	14.95	18.63	15.01
Voltage at Maximum Power(Vmp/V)	28.20	26.20	28.40	26.40	28.60	26.60	28.80	26.80	29.00	27.00
Current at Maximum Power(Imp/A)	17.19	14.01	17.25	14.05	17.31	14.09	17.36	14.14	17.42	14.17
Module Efficiency(%)	20.30%		20.50%		20.70%		20.90%		20.10%	

**TEMPERATURE RATINGS**

Normal Operating Cell Temperature(NOCT)	43±2℃
Temperature Coefficient of Isc	+0.040%/℃
Temperature Coefficient of Voc	-0.250%/℃
Temperature Coefficient of Pmax	-0.340%/℃

I-V Curve at Different Temperature (490W)



P-V Curve at Different Irradiation (490W)

