



# WXS190S-2011



## Technical parameters

### General

1	72 High-efficient monocrystalline solar cells (125*125 mm) per module, 6 strings, 3 bypass-diodes
2	Front glass: 3.2 mm, high transmissivity low-iron toughened glass
3	Frame: anodized aluminum

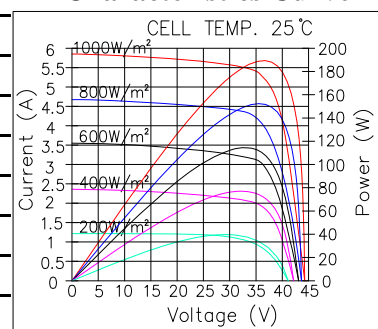
### Connection

4	Junction box: plastic, water resistant, IP65, 130*105*30 mm
5	Cabel: solar cable 4 mm <sup>2</sup> , 1 m
6	Connectors: plug type

### Electrical Characteristics(STC\*)

7	Maximum power	PMPP	190W
8	Tolerance		0~ +3%
9	Open-circuit voltage	Uoc	44.28V
10	Short-circuit current	IsC	5.85A
11	Voltage at Pmax	UMPP	36.63V
12	Current at Pmax	IMPP	5.19A
13	Cell temperature	TNOCT	45°C±2°C
14	Module efficiency		14.88%
	Module efficiency at low irradiance		2.79%
15	Measured voltage at PMPP tolerance: ±3% ; other values tolerance: ±3%		

### Characteristics Curve



\*STC (Standard-Testing Conditions): Irradiance level 1,000 W/m<sup>2</sup>; Air-Mass (AM) 1.5; cell temperature 25°C;

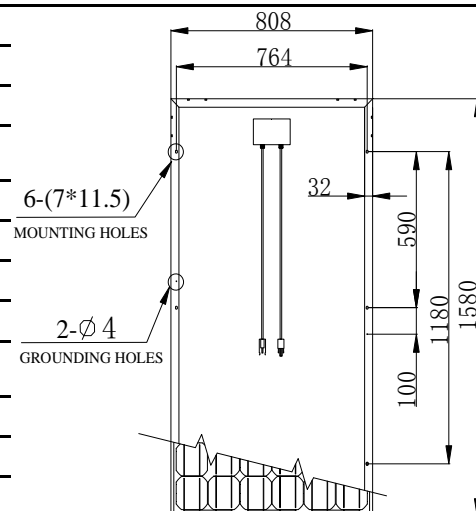
\*\* (at low irradiance) irradiance level 200 W/m<sup>2</sup>, Air-Mass (AM) 1.5; cell temperature 25°C

### Temperature Coefficient (changes with temperature changes)

16	Temp coefficient of Voc	Uoc	-0.33%/°C
17	Temp coefficient of Isc	IsC	0.02%/°C
18	Temp coefficient of power	PMPP	-0.45%/°C

### Mechanical data (dimensions and weight)

19	Length	1,580mm(Tolerance: +0.5/-0mm)
	Width	808mm(Tolerance: +0.5/-0mm)
	Height	40mm(Tolerance: +0.26/-0.26mm)
20	Weight	15.0kg



### Limits

21	Maximum voltage	1,000V
22	Fuse rating	15A
23	Operating temperature	-40~+85°C
24	Maximum pressure(according to IEC 61215 ed.2)	5,400 N/m <sup>2</sup>
25	Application class (according to IEC 61730)	A
26	Fire class (according to IEC 61730)	B
27	Class	II

### Approvals and Certificates

28	IEC 61215 ed.2 IEC 61730
29	More details in the leaflet

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