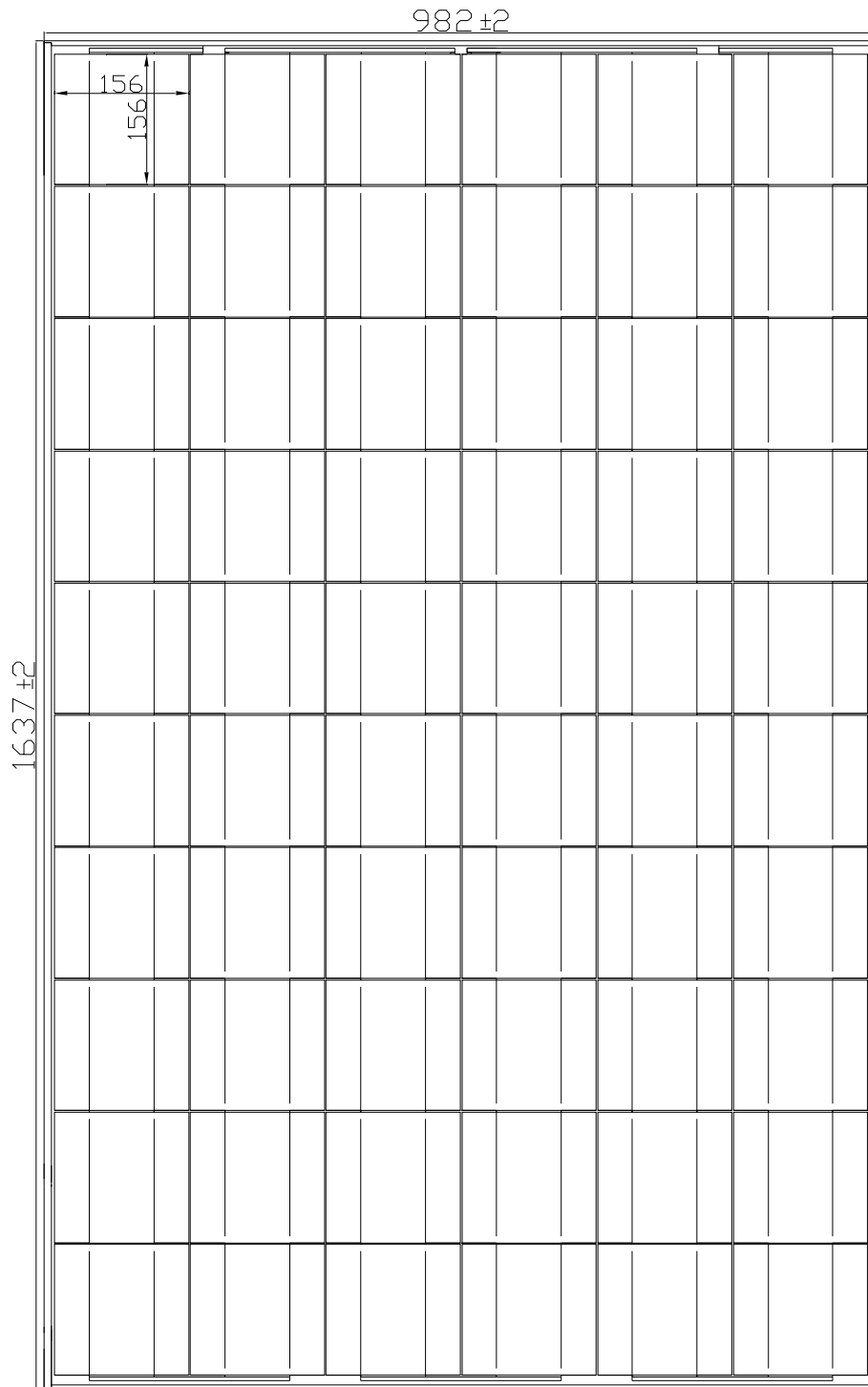


Ningbo Huasheng Solar Energy Sources Industry Co., Ltd  
PV Module Performances  
(Test condition: 1000W/m<sup>2</sup>, AM1.5, 25 °C)

Type		<b>HS-220-60-156X156-P</b>
Silicon		
Parameters		Poly-crystalline silicon
Maximum Power	Watt	220
Production Tolerance		±5%
Maximum Power Voltage	V	28.8
Maximum Power Current	A	7.64
Open circuit voltage	V	36.8
Short circuit current	A	8.42
Cell efficiency	%	15.20
Module efficiency	%	13.68
Size of module (wide and high)		1637mm x982mm
frame (type, material and thickness)		Anodized Aluminium frame,46mm thickness
Number of cells		60pcs
Size of cells (wide and high)		156mmx156mm
Weight per piece		20 Kg
Type of junction box		PV junction box with TUV certificate
Cable type and length, connector type		PV cable, 0.9m plug and socket
Maximum system voltage		1000V
Temperature coefficient of Isc		+0.05%/°C
Temperature coefficient of Voc		-0.34%/°C
Temperature coefficient of power		-0.5%/°C
Temperature coefficient of Im		+0.05%/°C
Temperature coefficient of Vm		-0.34%/°C
NOCT (Nominal operating cell temperature)		47°C(±2°C)
Wind Bearing		60m/s(200kg/sq.m)
Impact Resistance Hail Impact Test		227g steel ball fall down from 1m height
Quality guarantee		3 years product warranty and 20 years 80% of power, 25 years lifetime
FF(%)		70%---72%
Packing		504pcs /40' container
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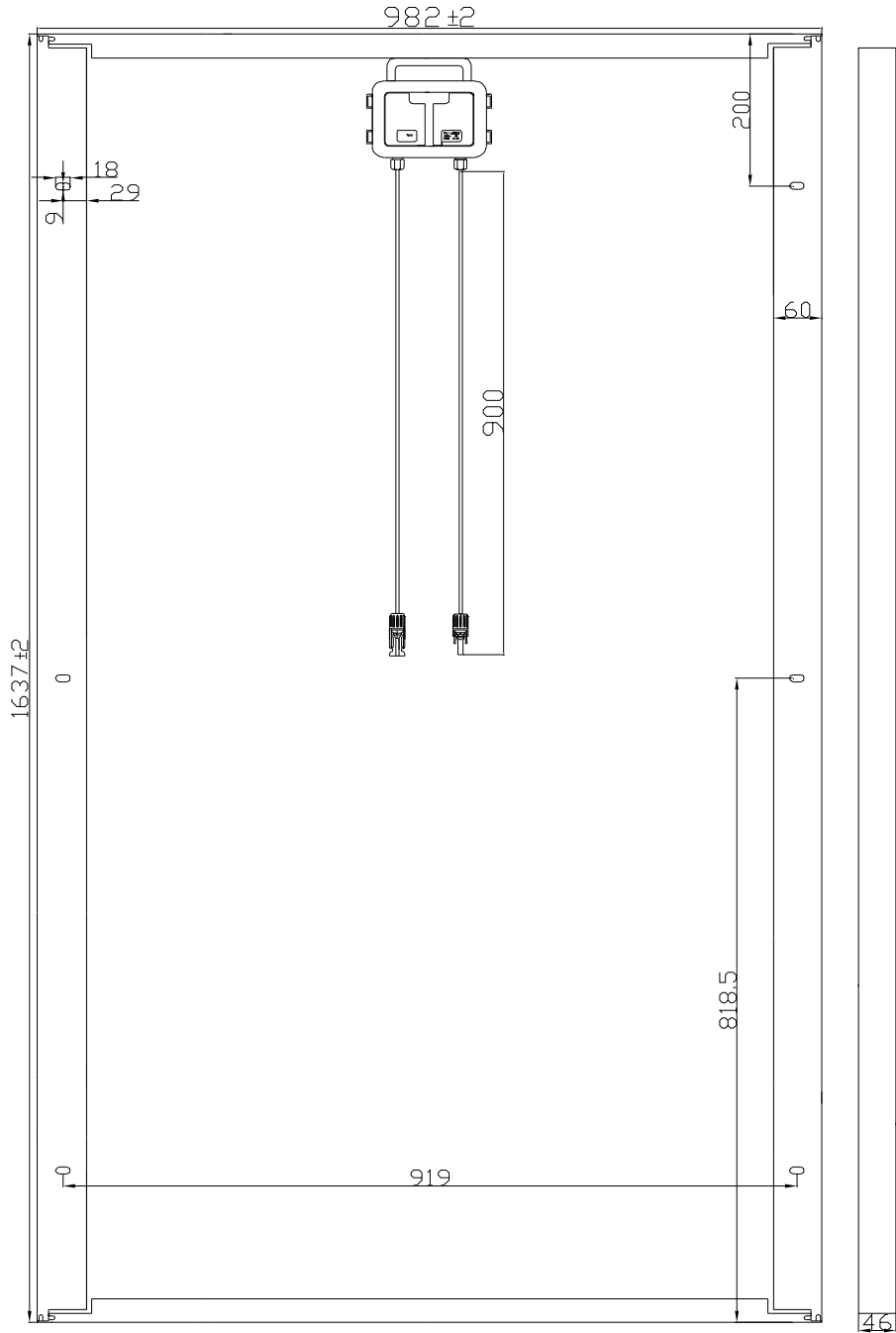
Product model	<b>HS-220-60-156X156-P</b>	<b>PV Module</b>	Contract number	
Production date			Delivery date	



注：  
 玻璃尺寸: 1631mm ± 1X976mm ± 1  
 外型尺寸: 1637mm ± 2X982mm ± 2X46mm

Drawing	Wuyufei	2009-7-1	Audit	Lihaiyang	2009-7-1
Proofreading	Yanjinxue	2009-7-1			

Product model	<b>HS-220-60-156X156-P</b>	<b>PV Module</b>	Contract number	
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