

**Monocrystalline**
**ZSH-280S6**
**Quality and Safety**

- ✱Rigorous quality control meeting the highest international standards
- ✱High-transmissivity low-iron tempered glass, strong aluminium frame Using UV-resistant silicon
- ✱ISO 9001:2008 、ISO 14001:2004 and OHSAS18001
- ✱IEC61215,IEC61730,Safety Class II,conformity to CE

**Features**

- ✱Aesthetic appearance with excellent efficiency based on innovative photovoltaic technologies
- ✱High quality,strong aluminium frame,passing mechanical load testing 5400 Pa and wind pressure 2400Pa

**Warranties**

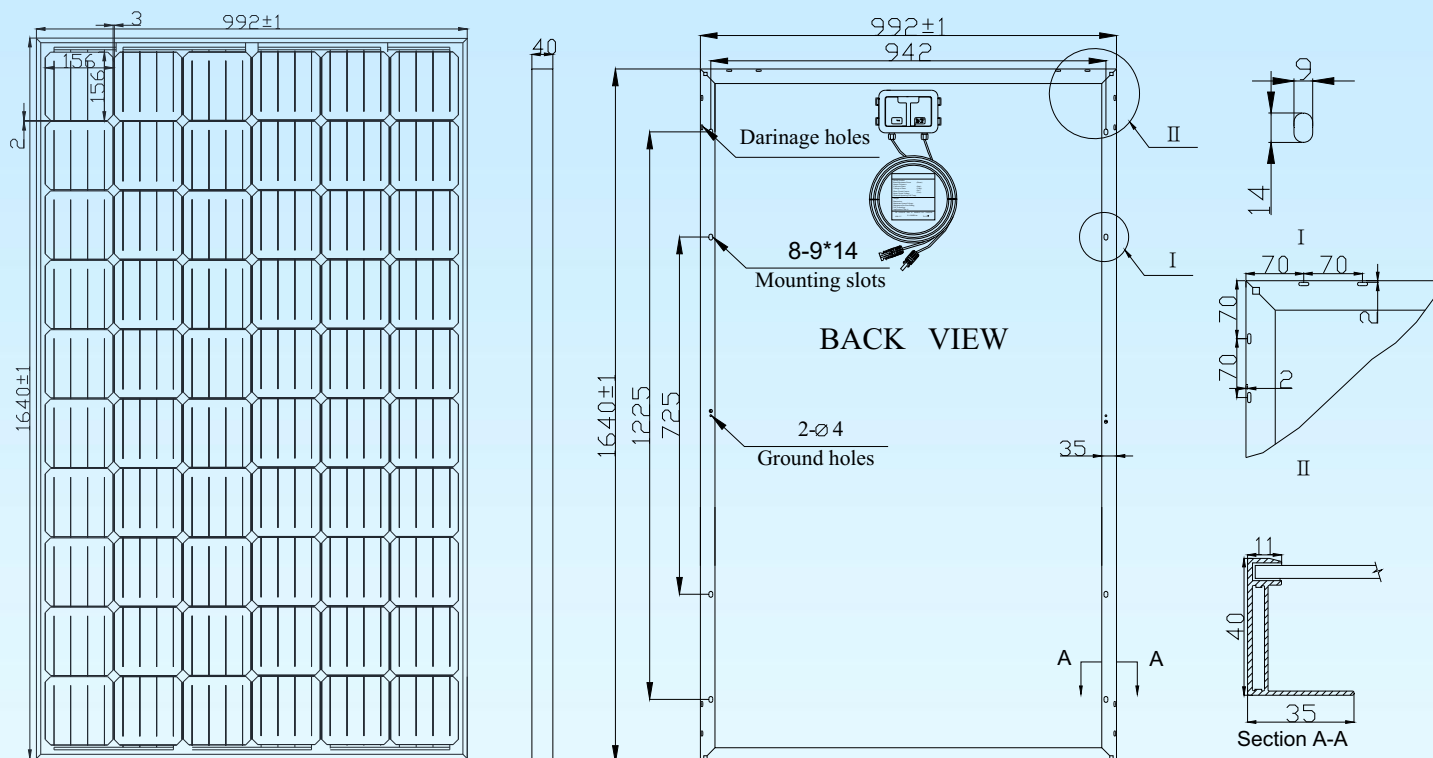
- ✱10 years limited product warranty
- ✱10 years at90% of the minimal rated power output
- ✱25 years at80% of the minimal rated power output

**Certificates**

**Electrical Characteristics**

Model	ZSH-260S6	ZSH-265S6	ZSH-270S6	ZSH-275S6	ZSH-280S6
Maximum Power at STC (Pmax)	260W	265W	270W	275W	280W
Optimum Operating Voltage (Vmp)	30.92V	31.13V	31.14V	31.17V	31.18V
Optimum Operating Current (Imp)	8.409A	8.515A	8.671A	8.825A	8.980A
Open-Circuit Voltage (Voc)	37.36V	37.38V	37.40V	37.42V	37.44V
Short-Circuit Current (Isc)	9.279A	9.452A	9.626A	9.799A	9.972A
Solar Cell Efficiency (%)	18.13	18.48	18.83	19.18	19.53
Solar Module Efficiency (%)	15.98	16.28	16.59	16.90	17.21
Operating Temperature	-40to85℃				
Maximum System Voltage	DC1000				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~3%				
STC:Irradiance 1000W/m <sup>2</sup> ,Modules Temperature 25℃,AM=1.5					

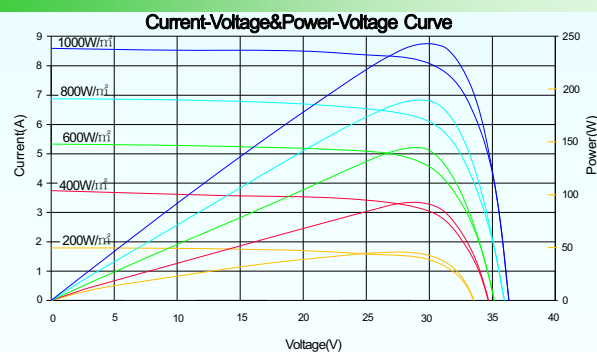
## Engineering Drawings



## Mechanical Characteristics

Solar cell	Mono-Crystalline 156*156mm
No. of cells	60 (6*10)
Dimensions	1640mm*992mm*40mm
Weight	18kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	PV-*****
Connector	Plug and socket
Output cables	PV 4.0mm <sup>2</sup> , 0.9m
1*20'	330 pcs
1*40'	728 pcs
1*40'HQ	812 pcs

## IV-Curves



## Temperature Coefficient

Nominal Operating Cell Temperature (NOCT)	47°C +/- 2°C
Temperature Coefficient of Pmax	-0.47%/°C
Temperature Coefficient of VOC	-0.346%/°C
Temperature Coefficient of ISC	+0.036%/°C

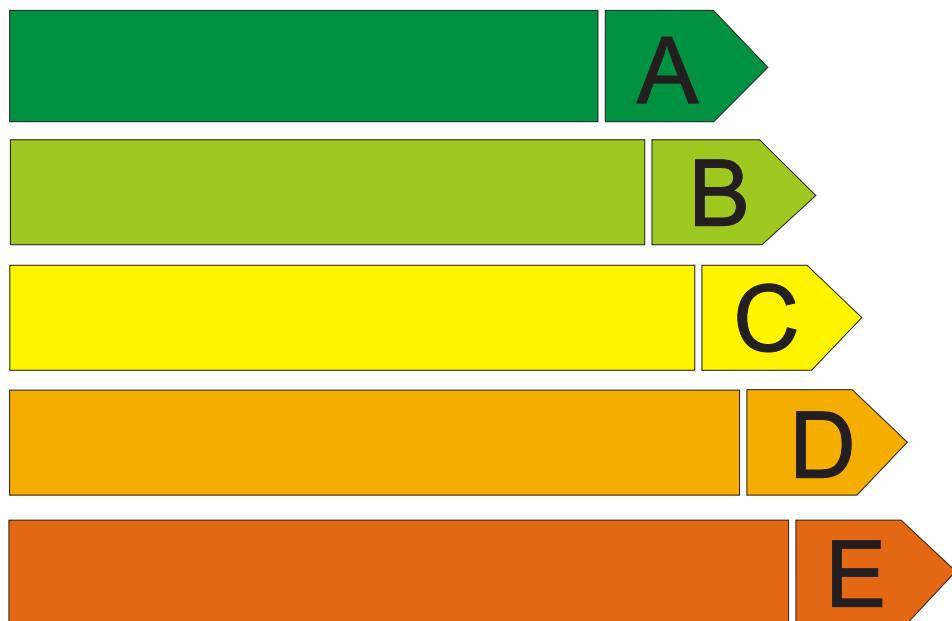
# Energia (Elétrica)

Fabricante  
Marca  
Registro Inmetro  
Modelo

MÓDULO  
FOTOVOLTAICO

ZAPI  
Huashun ZATECH  
006983/2016  
SH-280S6-20

Mais eficiente



Menos eficiente

**EFICIÊNCIA ENERGÉTICA (%)**

**17,2**

**Área Externa do Módulo (m2)**

**1,63**

**Produção Média Mensal de Energia (kWH/mês)**

**35,00**

**Potência nas condições Padrão (W)**

**280**

Requisitos de Avaliação de Conformidade para Sistemas e equipamentos para Energia Fotovoltaica - Portaria Inmetro nº 0004/2011

Instruções de instalação e recomendações de uso, leia o manual do aparelho



**PROCEL**

PROGRAMA NACIONAL DE  
CONSERVAÇÃO DE ENERGIA ELÉTRICA



**IMPORTANTE: A REMOÇÃO O DESTA ETIQUETA ANTES DA VENDA ESTÁ EM DESACORDO COM O CODIGO DE DEFESA DO CONSUMIDOR**