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Solar Panel Guide Specification Data Sheet

PolyCrown Solar Tech

NS-300-315S6-60

NS-315S6-60

Also available on the web at
EnergyPal.com/polycrown-solar-tech-solar-panels/ns-315s6-60

Photovoltaic Module Monocrystalline60

KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by 5 busbar solar cell



Strictly control the micro-crack of solar cells and the other non visible defect of internal modules



Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



Manufactured according to and certified international I Quality and Environment Management System



Using advanced low reflection and high light transmission glass and cell sheet surface cutting technology, in the weak light environment can also play a good performance.



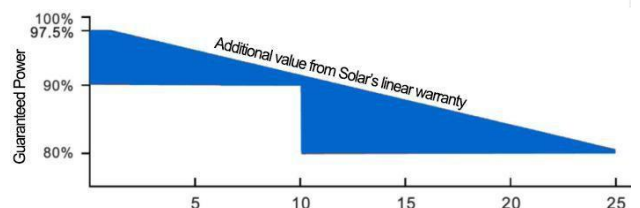
Certificates

- IEC61215, IEC61730, CQC, CE, TUV
- ISO9001:2008
- ISO14001:2004
- BSOHSAS18001:2007



Warranties

- 10 years product warranty
- 25 years power warranty



Electrical Characteristics



Polycrown Solar

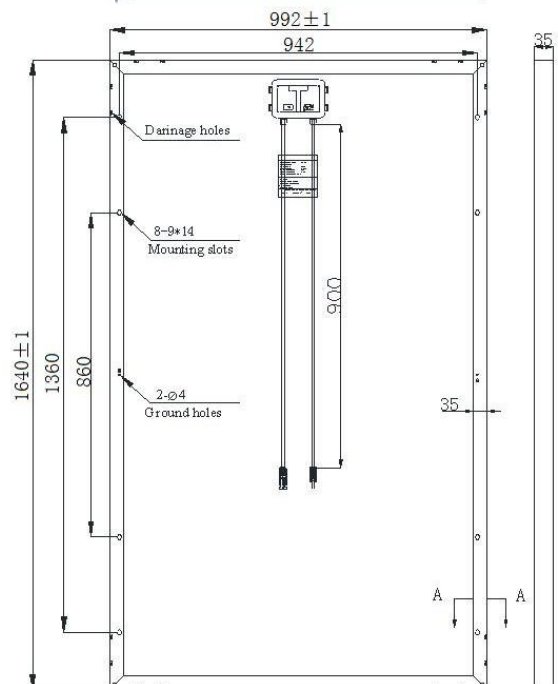
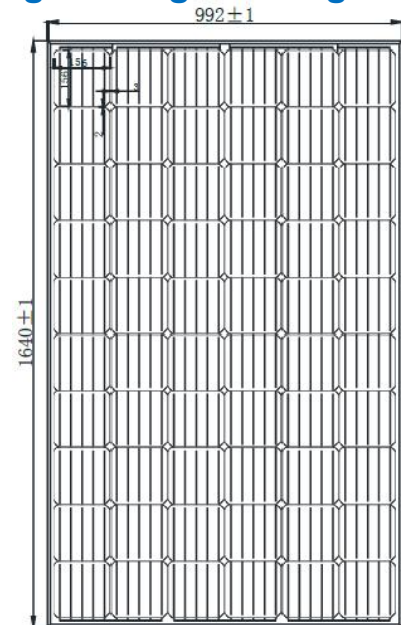
Model	NS-300S6-20	NS-305S6-20	NS-310S6-20
Maximum Power at STC(Pmax)	300W	305W	310W
Optimum Operating Voltage (Vmp)	31.89V	31.96V	32.04V
Optimum Operating Current (Imp)	9.407A	9.543A	9.675A
Open-Circuit Voltage (Voc)	39.21V	39.29V	39.37V
Short-Circuit Current (Isc)	9.885A	10.082A	10.226A
Solar Cell Efficiency (%)	20.93	21.30	21.66
Solar Module Efficiency (%)	18.44	18.75	19.05
Operating Temperature	-40to85°C		
Maximum System Voltage	DC1000		
Maximum Series Fuse Rating	15A		
Power Tolerance	0~+3%		

STC:Irradiance 1000W/m², Modules Temperature 25°C ,AM=1.5

Temperature Coefficient and Mechanical Characteristics

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
Solar cell	Mono156*156mm
No. of cells	60 (6×10)
Dimensions	1640mm*992mm*35mm
Weight	18kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP67 rated
Connector	MC4 connector
Output cables	PV 4.0mm ² ,0.9m
1*20'	360pcs
1*40'	/ pcs
1*40'HQ	910pcs

Engineering Drawings



IV-Curves

Current-Voltage&Power-Voltage Curver

