TAHIRA CORPORATION
Combining Technology to Global Leadership

CHUBB INSURANCE

CHUBB

SYP240S~SYP260P

POLYCRYSTALLINE MODULE 60x6"

Characteristics & Performance

- Use of only certified materials at highest quality standards.
- The process of cell and module production is fully automated with 100% quality control and product traceability.
- Heavy load mechanical resistance: TÜV certified (5400Pa tested against snow and 2400Pa test against wind)
- Excellent performances even during low solar radiation
- Guaranteed positive tolerance 0 to +3% of power for each module

Certifications for Incentives

- **Quality, Environment, Health & Safety**
  ISO9001:2008, ISO14001:2004, OHSAS18001:2007
  Full Member PV Cycle Association AISBL
- **Product Certifications**
  Quality and Robustness: IEC61215:2005
  Safety: IEC61730 -1/-2, MCS, CEC, UL
  Resistance to salt corrosion (salt fog): IEC61701:2000
  Resistance to ammonia fumes: Ammonia Resistance Test

25 Year Linear Power Guarantee

- **Commercial**
  12 years on material and manufacturing defects
- **Performance**
  Power not less than 90% of power peak during the first 12 years
  Power not less than 80% of power peak during the subsequent 13 years.

Qualified. IEC61215
Qualified. IEC61730

APPROVED PRODUCT

47VC

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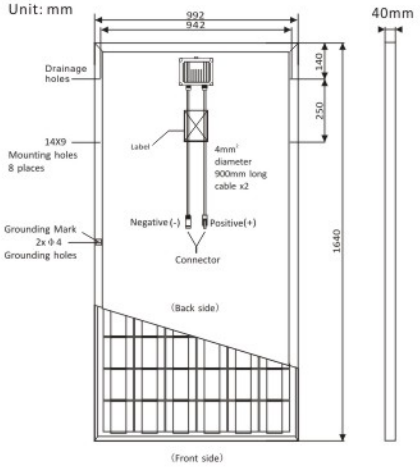
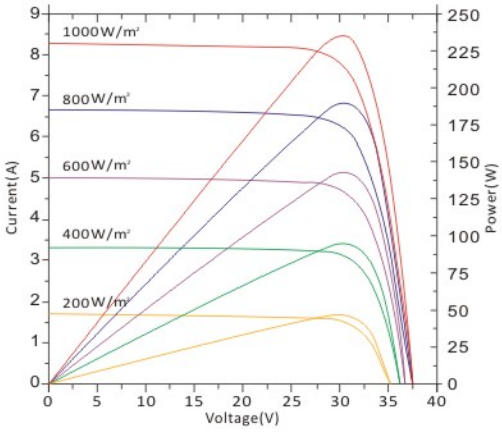
Physical Data

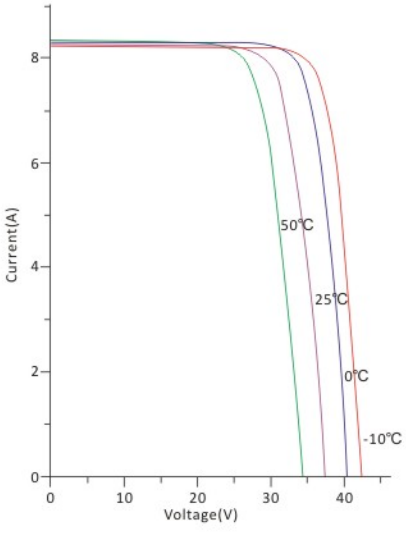


SYP235S

Electrical characteristics at different irradiations (25℃)



I-V characteristics at different cell temperatures (AM1.5, 1000W/m²)



Electrical Characteristics at STC

Type		SYP240S	SYP245S	SYP250P	SYP255P	SYP260P
Maximum Power	Pmax(W)	240W	245W	250W	255W	260W
Tolerance Value for Power	%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage	Vmpp(V)	30.20	30.30	30.30	30.50	30.50
Maximum Power Current	Impp(A)	7.96	8.09	8.26	8.38	8.53
Open Circuit Voltage	Voc(V)	37.20	37.30	37.30	37.40	37.50
Short Circuit Current	Isc(A)	8.33	8.34	8.90	9.05	9.24
Module Efficiency	η	>14.78%	>15.07%	>15.37%	>15.67%	>15.98%

Performance at STC: Irradiance of 1000W/m², Module temperature 77±3.6℉(25±2℃)
AM 1.5 Power measurement tolerance: ±3%

Electrical Characteristics at NOCT

Type		SYP240S	SYP245S	SYP250P	SYP255P	SYP260P
Maximum Power	Pmax(W)	173.04	179.10	183.20	187.40	189.28
Maximum Power Voltage	Vmpp(V)	26.56	27.30	27.50	27.60	27.80
Maximum Power Current	Impp(A)	6.52	6.56	6.66	6.79	6.81
Open Circuit Voltage	Voc(V)	33.65	34.20	34.30	34.40	34.50
Short Circuit Current	Isc(A)	6.8	7.02	7.11	7.23	7.32

Performance at NOCT: Irradiance 800W/m², Ambient temperature 20℃, Wind speed 1m/S
Power measurement tolerance: ±3%

Temperature Coefficients(Tc)

NOCT(Nominal Operating Cell temperature)	45±2℃
Temperature Coefficient of VOC(β)	-0.33%/℃
Temperature Coefficient of ISC(α)	+0.033%/℃
Temperature Coefficient of Pmax	-0.39%/℃

Permissible Operating Conditions

Maximum System Voltage	1000 V
Operating Temperature Range	-40℃~+85℃
Maximum Surface Load Capacity	Test up to 5400Pa according to IEC61215 (Advanced test)
Resistance Against Hail	Maximum diameter of 1in.(25mm) impact speed of 51.5mph(23m/s)

Mechanical specifications

Cells	Polycrystalline cell with 3-busbars,6"(6x10)
Junction Box	IP67,combined with 3 by-pass diodes
Front Glass Thickness	3.2mm
Connecting Cable/Connector	MC4 compatible connector/4mm² diameter, 900mm length
Frame Dimension	1640x992x40mm
Weight	19.5KG

Packing Features

Frame Height	40mm
Qty/Pallet (PCS)	26
Qty/40HC container (PCS)	728