



SARONIC

Saronic (EU) Power Tech GmbH
ADD: Neuer wall 10, 20354 Hamburg Germany

P60PCS-220W 215W 210W Product Specification



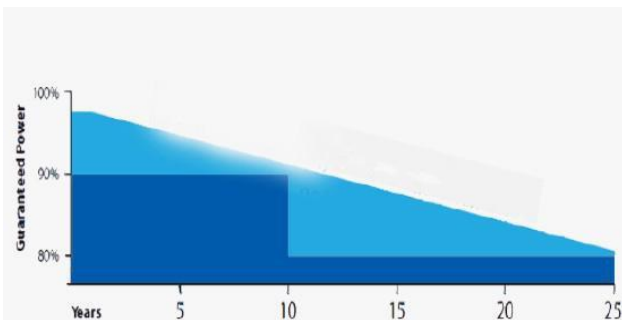
- Industry leading module power output warranty
- International quality, safety and performance certifications
- High-reliability with guaranteed 0/+5 Wp peak power
- Manufacturing facility certified to ISO9001 Quality Management System standards
- Beautiful appearance, good durability & easy installation
- Special design in accordance with requirements of customers

CERTIFICATES

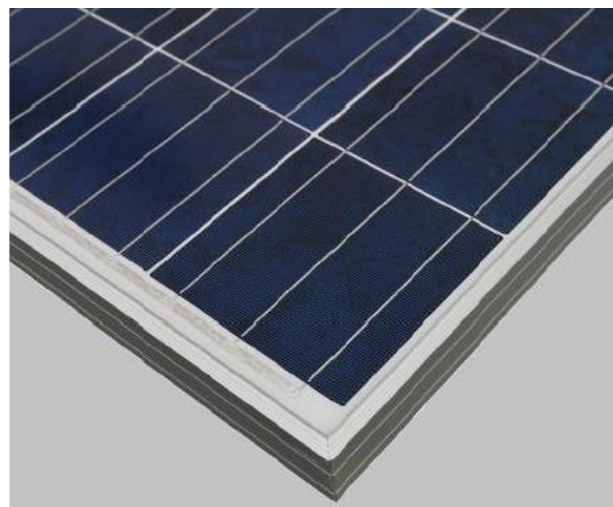


WARRANTIES

- 10 years for product defects in materials & workmanship
- 10 years for 90% of warranted minimum power output
- 25 years for 80% of warranted minimum power output



25 years linear warranty

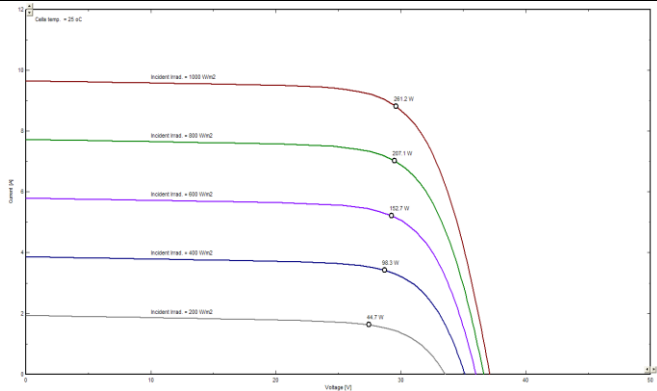


Electrical parameters at Standard Test Conditions

(STC:AM=1.5, 1000W/m², cells Temperature 25°C)

| | | | |
|-----------------------------|---------|-------|-------|
| Typical Type | 220W | 215W | 210W |
| Max-Power (Pmax) w | 220W | 215W | 210W |
| Max-Power Voltage (Vmp) | 29.34 | 28.74 | 28.7 |
| Max-Power Current (Imp) | 7.5 | 7.48 | 7.32 |
| Open-Circuit Voltage(Voc) | 36.56 | 36.5 | 36.48 |
| Short-Circuit Current (Isc) | 8.48 | 8.46 | 8.28 |
| Max-System Voltage | DC1000V | | |
| Cell efficiency (%) | 15.5 | 15.2 | 14.8 |

I-V CURVE



MECHANICAL DATA

| | |
|------------------|--|
| Dimensions | 1640*992*40mm |
| Weight | 18kgs |
| Front Glass | 3.2 mm tempered glass |
| | TUV (2Pfg1169:2007) |
| Output Cables: | 900mm ² (0.006 inches ²), symmetrical lengths 1000 mm |
| Connectors: | MC4 compatible IP67 |
| cell type: | Poly Crystalline silicon, 156mmx156mm |
| Number of cells: | 60 cells in series |

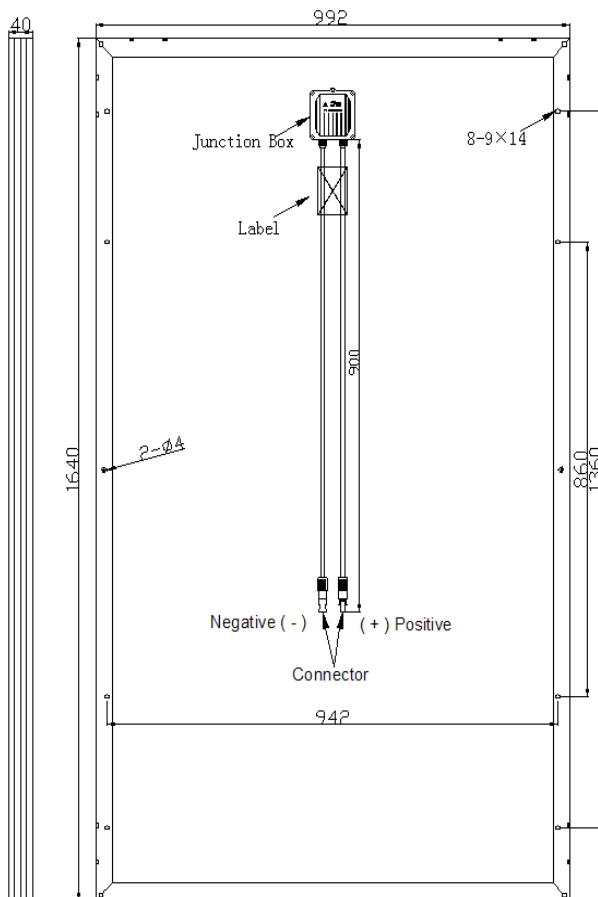
TEMPERATURE CHARACTERISTICS

| | |
|------------------------------------|---------------|
| Temp.Coeff.of Isc(TK Isc) | 0.045% / °C |
| Temp.Coeff.of Voc(TK Voc) | (-0.34%) / °C |
| Temp.Coeff of Pmax(TK Pmax) | (-0.47%) / °C |
| Operating Temperature | (-40~+85)°C |
| Nominal Operating Cell Temperature | 45 +2 °C |

PACKING CONFIGURATION

| | | | |
|-----------------------|-------|-------|-------|
| Container | 20'GP | 40'GP | 40'HQ |
| Pieces per Pallet | 46 | 46 | 56 |
| Pallets per Container | 6 | 14 | 14 |
| Pieces per Container | 276 | 644 | 784 |

DIMENSIONS AND STRUCTURE



TESTS, CERTIFICATIONS AND WARRANTIES

| | |
|-------------------------------------|---|
| Standard tests | IEC 61215, IEC 61730 |
| System certs | ISO 9001, ISO 14001 |
| Certifications | TUV, CE, MCS, PV CYCLE, CEC, CHUBB |
| Extreme wind and snow loads testing | withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) |
| Positive tolerance | 0~+3w |
| Junction Box | IP67 Rated |
| Warranties | 10-year material and workmanship and 25-year output at least 80%. |