

SM-255PC8 60 cell-series

Polycrystalline PV Module

S-ENERGY

240 ~ 255 Watt

New story creator, S-Energy

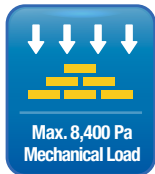
As the first company for PV industry in Korea, S-Energy has always been marking its name in every milestone of Korean PV history. Since 1992, we have been manufacturing PV modules and providing system integration service to our customers, and now we are proud to boast our world-wide recognition based on unbeatable quality standards and reliability. S-Energy's PC8 series is designed with our accumulated experience and cutting edge technology, and it will be the perfect choice for you which can be used in any environment and any installation conditions.

Features



Positive tolerance

0~+5W positive power sorting



Mechanical load

8,400 Pa (857kg/m²)
(IEC Standards: 245kg/m²)



Hail impact test

30.7m/s speed ball
(IEC Standards: 23m/s)



Ammonia corrosion resistance test

Applicable in agricultural
and stock breeding environment



Salt mist corrosion test

Applicable in marine environment



Linear warranty

Max annual power decline 0.7%



Qualifications & Certifications

IEC 61215 & 61730, CE, UL1703, MCS,
ISO 9001, ISO 14001, OHSAS 18001, PV Cycle



Mechanical Characteristics

| | |
|---------------|--|
| Solar cell | Polycrystalline 156mm x 156mm (6 inches) |
| No. of cells | 60 cells 6 x 10 matrix |
| Dimensions | 1665mm x 999mm x 50mm |
| Weight | 20 kg (44.09 lbs) |
| Front glass | 3.2mm High-transmittance low iron tempered glass |
| Frame | Anodized aluminum silver frame Option : black color / rail type |
| Output cables | RHW-2, 12AWG (4mm ²) / Cable length:1000mm |
| Connectors | MC4 connectable |

Warranty

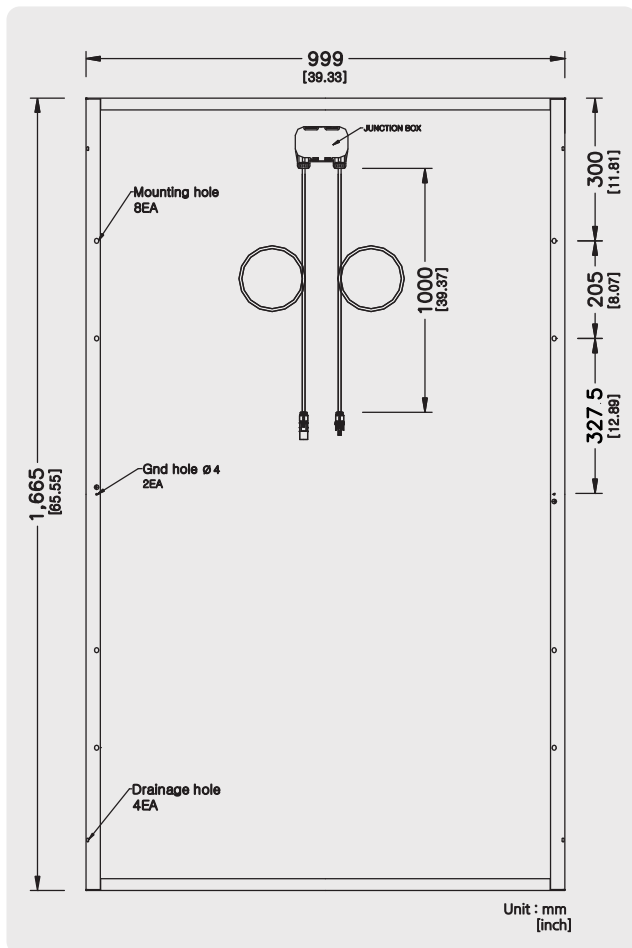
| | |
|----------------------|--|
| Product warranty | 10 years limited product warranty |
| Performance warranty | 1 st year minimum peak power output : 97% |
| | 2 nd year to 24 th year peak power output : max annual power decline 0.7% |
| | 25 years peak power output : 80.2% |

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Polycrystalline PV Module

Electrical Characteristics

| STC (Irradiance 1000W/m ² , module temperature 25°C, AM=1.5) | SM-240PC8 | SM-245PC8 | SM-250PC8 | SM-255PC8 |
|---|-----------------------------|-----------|-----------|-----------|
| Rated power (P _{max}) | 240W | 245W | 250W | 255W |
| Voltage at P _{max} (V _{mp}) | 30.0V | 30.4V | 30.8V | 30.8V |
| Current at P _{max} (I _{mp}) | 8.02A | 8.08A | 8.14A | 8.28A |
| Warranted minimum P _{max} | 240W | 245W | 250W | 255W |
| Short-circuit current (I _{sc}) | 8.58A | 8.63A | 8.67A | 8.82A |
| Open-circuit voltage (V _{oc}) | 37.3V | 37.4V | 37.5V | 37.9V |
| Module efficiency | 14.42% | 14.72% | 15.03% | 15.33% |
| Operating module temperature | -40°C to +85°C | | | |
| Maximum system voltage | 600VDC (UL) / 1000VDC (IEC) | | | |
| Maximum series fuse rating | 15A | | | |
| Maximum reverse current | 20.25A | | | |
| Power tolerance | 0 ~ +5 W | | | |

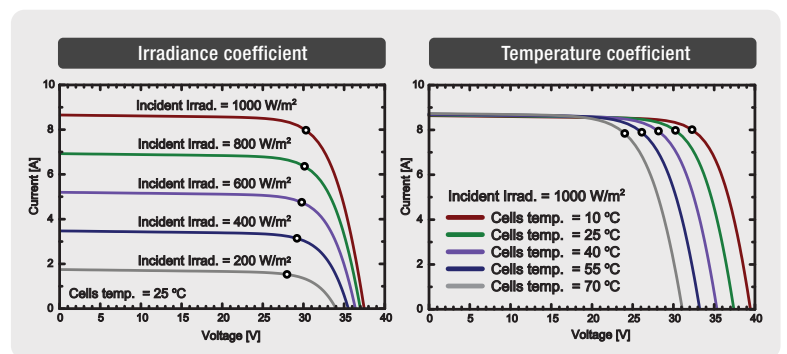


Temperature Characteristics

| | |
|---|------------|
| Temperature coefficient of I _{sc} | 0.052%/°C |
| Temperature coefficient of V _{oc} | -0.312%/°C |
| Temperature coefficient of power | -0.429%/°C |
| NOCT (Air 20°C; Sun 0.8kW/m ² ; Wind 1m/s) | 45±3°C |

Packing Configuration

| | |
|-----------------------|------------|
| Container | 40' H/C |
| Modules per pallet | 20 pcs |
| Pallets per container | 26 pallets |
| Modules per container | 520 pcs |



Remarks :

P_{max} measurement tolerance : ±3%
 S-Energy uses triple A class simulator.
 Specification subject to change without prior notice. S-Energy reserves the rights of final interpretation.
 Document : SE-Datasheet_255PC8_3BB_60_2013_V02

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