

Made in EU +10% Feed-in Tariff

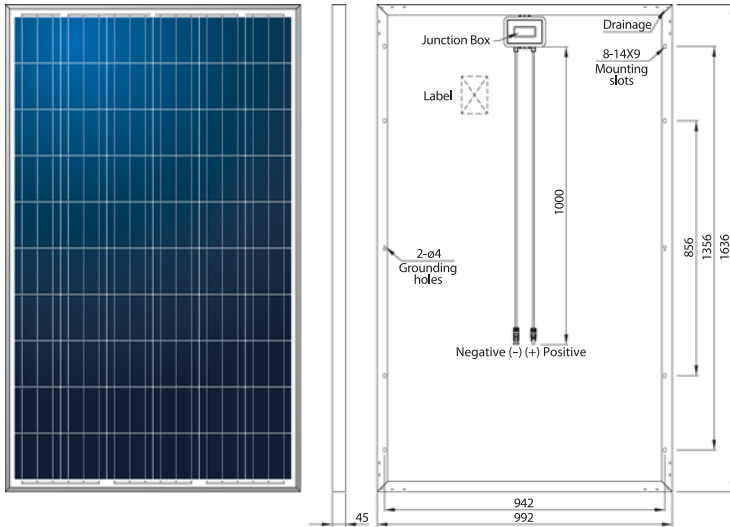
Hareonsolar

Hareon Solar Technology Co., Ltd.

Huangtang Industrial Zone, Xuxiake Town, Jiangyin, Jiangsu, China, 214407
Tel: +86 (510) 8653 0222 Fax: +86 (510) 8653 0828 E-mail: sales@hareon.net
www.hareonsolar.com

3BB HR-225P-18/Bb — HR-245P-18/Bb

Poly-Crystalline Silicon Module



MECHANICAL PARAMETERS

| | |
|---|--------------|
| Cell (mm) | 156x156 Poly |
| Weight (kg) | 19.5 |
| Dimensions (LxWxH) (mm) | 1636x992x45 |
| Cable Cross Section Size (mm ²) | 4 |
| No. of Cells and Connections | 60(6x10) |
| No. of Diodes | 3 |

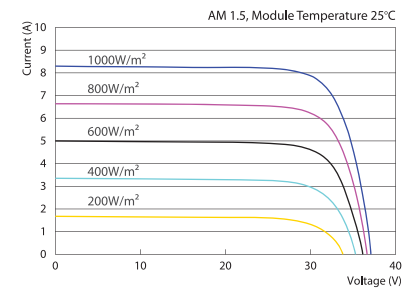
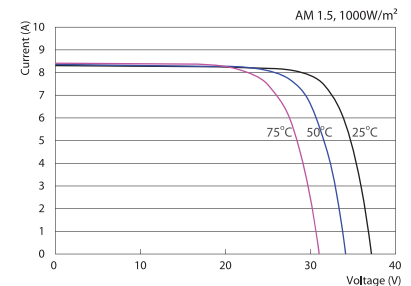
QUALIFICATION

| | |
|---------------------------------|---|
| Max. System Voltage | 1000VDC |
| Temperature Cycling Range | -40°C~+85°C |
| Max. Series Fuse | 15 A |
| Max. Wind Load / Max. Snow Load | 2400Pa / 5400Pa |
| Damp Heat Test | 85°C and 85 relative humidity for 1000h |
| Hot Spot Free | 100%EL inspection before and after lamination |

ELECTRICAL PARAMETERS

| TYPE | | HR-225W | HR-230W | HR-235W | HR-240W | HR-245W |
|------------------------------------|---|---------|------------|---------|---------|---------|
| STC | Rated Max. Power at STC (W) | 225 | 230 | 235 | 240 | 245 |
| | AM 1.5, Max. Power Voltage / Vmp (V) | 29.22 | 29.34 | 29.49 | 29.67 | 29.88 |
| | 1000W/m ² , Max. Power Current / Imp (A) | 7.70 | 7.84 | 7.97 | 8.09 | 8.20 |
| | Module Temperature 25°C, Open Circuit Voltage / Voc (V) | 36.95 | 37.05 | 37.16 | 37.25 | 37.34 |
| | Short Circuit Current / Isc (A) | 8.08 | 8.23 | 8.32 | 8.48 | 8.63 |
| Module Efficiency (%) | 13.86 | 14.17 | 14.48 | 14.79 | 15.10 | |
| NOCT | Rated Max. Power at NOCT (W) | 160 | 164 | 167 | 172 | 176 |
| | AM 1.5, Max. Power Voltage / Vmp (V) | 25.64 | 25.73 | 25.84 | 25.96 | 26.06 |
| | 800W/m ² , Max. Power Current / Imp (A) | 6.22 | 6.36 | 6.48 | 6.61 | 6.75 |
| | Ambient Temperature 20°C, Wind Speed 1m/s, Open Circuit Voltage / Voc (V) | 33.74 | 33.85 | 33.95 | 34.06 | 34.20 |
| | Short Circuit Current / Isc (A) | 6.55 | 6.69 | 6.82 | 6.96 | 7.10 |
| Module Efficiency (%) | 12.33 | 12.64 | 12.86 | 13.25 | 13.55 | |
| Temperature Coefficients of Pm | | | -0.44%/°C | | | |
| Temperature Coefficients of Voc | | | -0.32%/°C | | | |
| Temperature Coefficients of Isc | | | +0.055%/°C | | | |
| Nominal Operating Cell Temperature | | | 45°C±3°C | | | |
| Output Tolerance | | | 0~5W | | | |

235W CURVE



Version No.: A-0 2012

Specifications in this catalog sheet are subject to technical changes and product innovations. Hareon Solar reserves the right of final interpretation. 2012.06