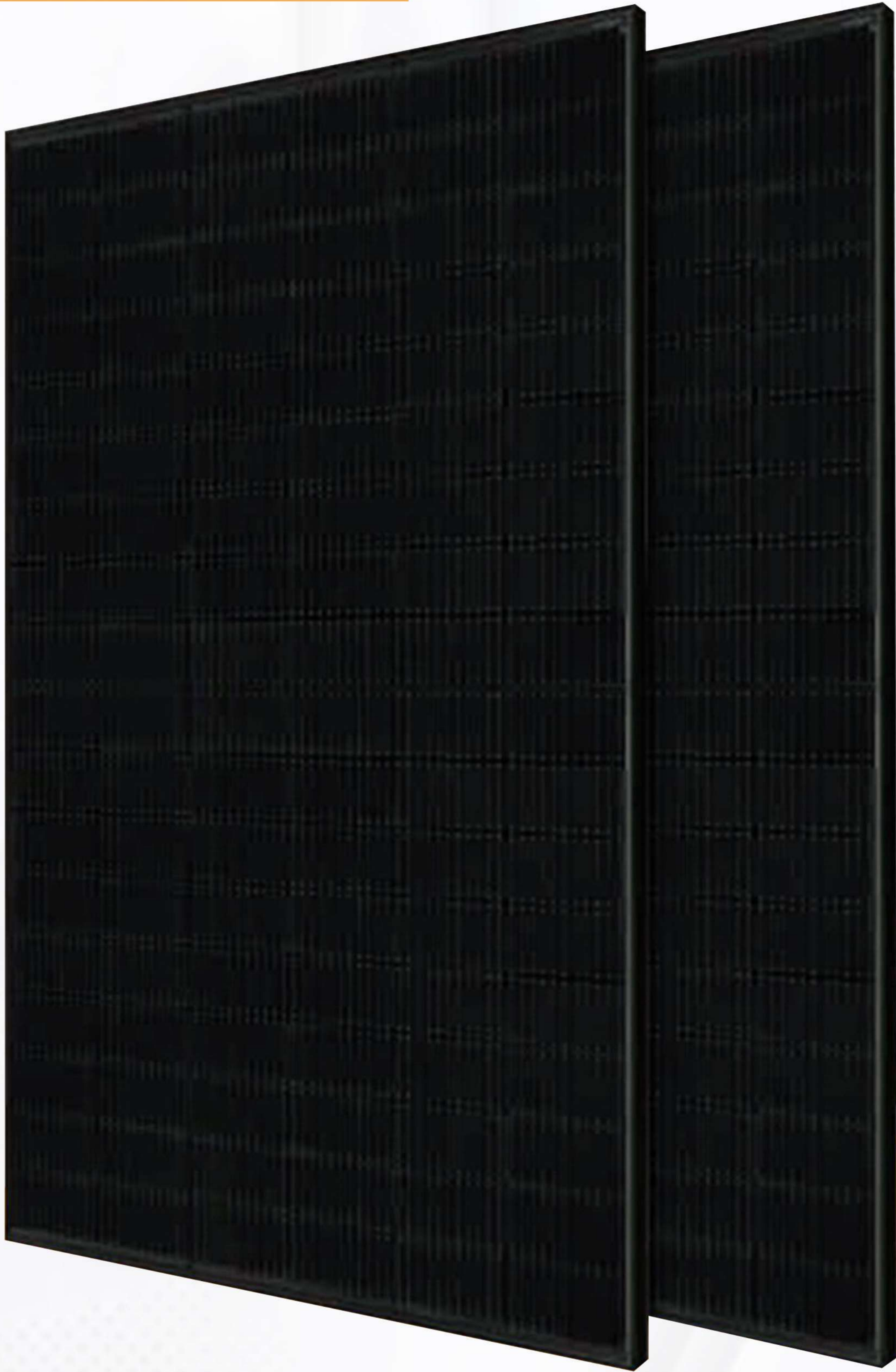


MGS 54M10



395-415W



Superior aesthetics, all-black design



Robust product design for harsh weather conditions



Improved performance in shaded areas



Designed & engineered in the U.S, Made in Dubai

Certifications:



Intertek



Headquarter address

📍 Magnus Green Solar LLC, 360 E 2nd St, STE 820, Los Angeles, CA 90012 USA

☎ +1-888-259-4196

✉ info@magnusgreensolar.com



PRODUCT WARRANTY



PERFORMANCE WARRANTY

Manufactured at:

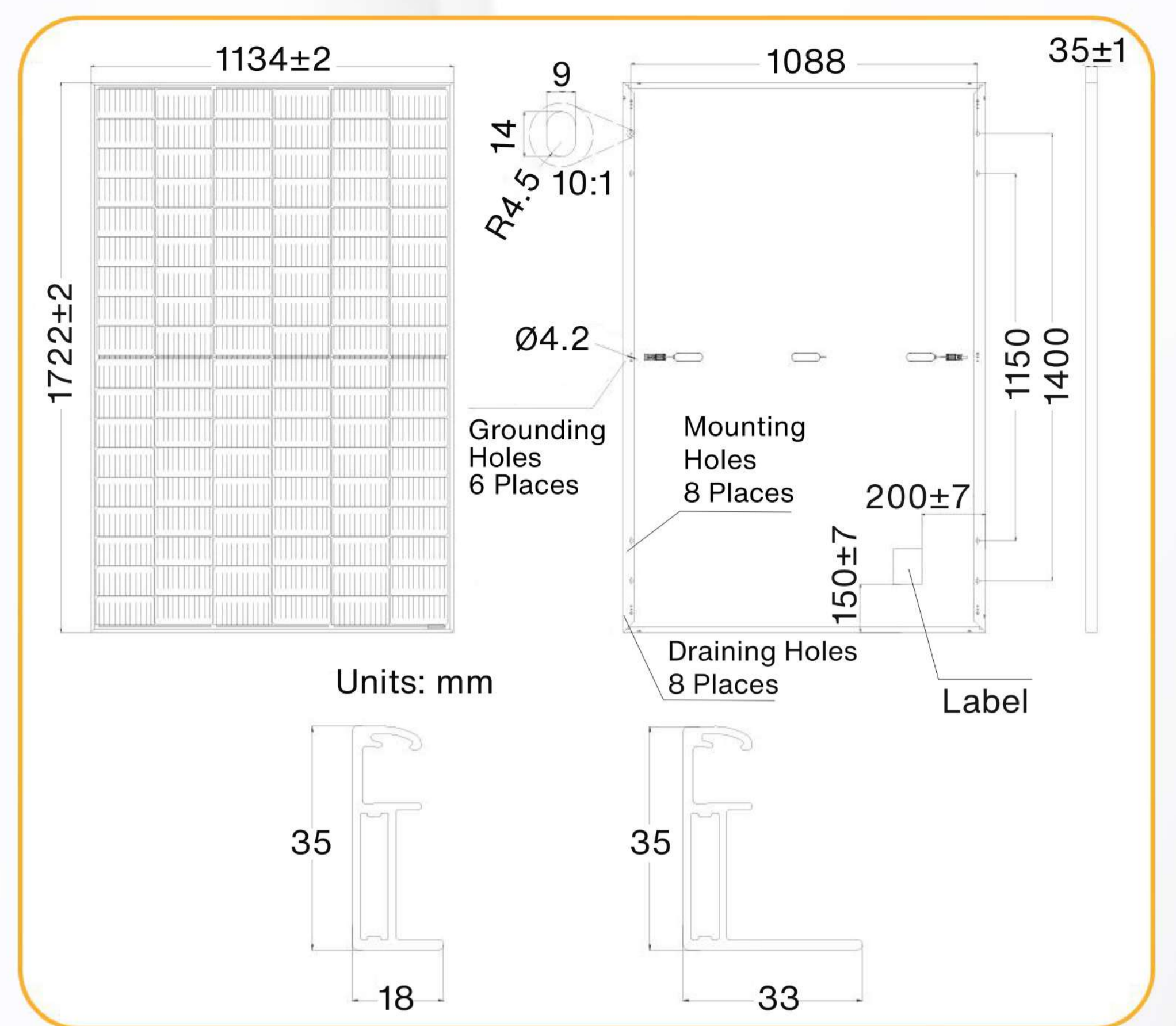
📍 Magnus Green Solar Panels Manufacturing, National Industries Park, Plot TP010505, Jebel Ali(South), Dubai, United Arab Emirates

☎ +971 50 786 3131

✉ info@magnusgreensolar.com

MECHANICAL SPECIFICATIONS

| | |
|--------------------------|---|
| Cell Type | Mono 182x91mm |
| Weight | 21.5kg |
| Dimensions | 1722x1134x35mm (LxWxT) |
| Cables | Portrait 300mm/Landscape 1200mm/Customized |
| No. of Cells | 108 (6x18) |
| Glass | 3.2mm (0.13inches) AR Coating Tempered Glass |
| Junction Box | IP68, 3/6 Bypass Diodes |
| Packing | 31pcs/carton, 806pcs/40HQ |
| Connector Type | Staubli Electrical Connectors AG (PV-KST4-EVO2/XY_UR) |
| Frame | Anodized Aluminium Alloy |
| Cable Cross-section Size | TUV: 4mm ² (0.006inches ²)/UL: 12AWG |



Length: ±2mm, Width: ±2mm | Height: ±1mm, Pitch: ±2mm

ELECTRICAL SPECIFICATIONS

| Module Type | MGS-395W-M54H-M10 | | MGS-400W-M54H-M10 | | MGS-405W-M54H-M10 | | MGS-410W-M54H-M10 | | MGS-415W-M54H-M10 | |
|------------------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Testing Condition | | | | | | | | | | |
| Open-Circuit Voltage (Voc/V) | 36.90 | 34.82 | 36.98 | 34.93 | 37.06 | 34.96 | 37.14 | 35.04 | 37.31 | 35.22 |
| Maximum Power Voltage (Vmp/V) | 30.32 | 28.26 | 30.42 | 28.40 | 30.52 | 28.54 | 30.62 | 28.72 | 30.79 | 28.87 |
| Short-Circuit Current (Isc/A) | 13.71 | 11.06 | 13.78 | 11.13 | 13.85 | 11.18 | 13.92 | 11.23 | 14.01 | 11.32 |
| Maximum Power Current (Imp/A) | 13.03 | 10.40 | 13.15 | 10.48 | 13.27 | 10.54 | 13.39 | 10.62 | 13.48 | 10.69 |
| Maximum Power (Pmax/W) | 395 | 294 | 400 | 298 | 405 | 301 | 410 | 305 | 415 | 309 |
| Module Efficiency (%) | 20.23% | | 20.49% | | 20.74% | | 21.00% | | 21.26% | |
| Power Tolerance | ±3% | | | | | | | | | |
| Tolerance of Rating Pmax/Isc/Voc % | ±3%/±4%/±3% | | | | | | | | | |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Binning Tolerance: 0 to +5W

MAXIMUM RATINGS

| | |
|------------------------|-------------|
| Maximum System Voltage | 1500V DC |
| Operating Temperature | -40°C~+85°C |
| Maximum Series Fuse | 25A |
| Safety Class | II |
| Fire Rating | Class C |
| Conductivity at Ground | ≤0.1Ω |
| Resistance | ≥100MΩ |

TEMPERATURE CHARACTERISTICS

| | |
|--------------------------------|-----------|
| NOCT Temperature | 45°C±2°C |
| Temperature Coefficient (Pmax) | -0.37%/°C |
| Temperature Coefficient (Voc) | -0.29%/°C |
| Temperature Coefficient (Isc) | 0.05%/°C |

PERFORMANCE WARRANTY

| | |
|---|-----------|
| Max Power Degradation | 0.5%/Year |
| 97.5% At The End of 1 st Year | |
| 93% At The End of 10 th Year | |
| 85.5% At The End of 25 th Year | |

CURVE & TEMPERATURE DEPENDENCE

