

CLASSIC PLUS G™



ECO-500-520M-54RHC-DGBFblack(HJT)

N-TYPE BIFACIAL DOUBLE GLASS MODULE G12R

HJT



30 YEARS
Product material
& workmanship
30 YEARS 90.3%
Linear performance
warranty

G12R Smbb
and half-cut cells
technology

Reduce
internal loss
Reduce
shadow loss

Advanced HJT
cell/module design,
higher reliability
and outstanding
performance

Harsh environ-
ment resistance
Damage-free laser
cutting, lower
micro-crack risk

Up to 85% power
bifaciality

ECO DELTA Mono HJT Half-cut Cell Double-glass-bifacial PV Module



ECO-500-520M-54RHC-DGBFblack(HJT)

ELECTRICAL DATA @ STC

| | | | | | | |
|-----------------------------|-----|--------------------------|-------|-------|-------|-------|
| Peak Power(Pmax) | (W) | 500 | 505 | 510 | 515 | 520 |
| Maximum Power Voltage (Vmp) | (V) | 34.16 | 34.27 | 34.38 | 34.49 | 34.60 |
| Maximum Power Current(Imp) | (A) | 14.64 | 14.74 | 14.84 | 14.94 | 15.04 |
| Open-circuit Voltage (Voc) | (V) | 40.76 | 40.87 | 40.98 | 41.09 | 41.20 |
| Short-circuit Current(Isc) | (A) | 15.48 | 15.59 | 15.70 | 15.81 | 15.92 |
| Module Efficiency | (%) | 22.5 | 22.7 | 22.9 | 23.2 | 23.4 |
| Operating Temperature | | -40°C~+85°C | | | | |
| Maximum System Voltage | | 1500V | | | | |
| Maximum Series Fuse Rating | | 30A | | | | |
| Mechanical Test Load | | Front 5400Pa Rear 2400Pa | | | | |

*STC (Standard Test Condition): Irradiance 1000W/ m² , Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT

| | | | | | | |
|----------------------------|-----|-------|-------|-------|-------|-------|
| Peak Power(Pmax) | (W) | 381 | 385 | 389 | 393 | 397 |
| MPP Voltage (Vmp) | (V) | 32.63 | 32.73 | 32.83 | 32.93 | 33.03 |
| MPP Current(Imp) | (A) | 11.70 | 11.78 | 11.86 | 11.94 | 12.02 |
| Open Circuit Voltage (Voc) | (V) | 38.90 | 39.01 | 39.11 | 39.22 | 39.32 |
| Short Circuit Current(Isc) | (A) | 12.37 | 12.46 | 12.55 | 12.64 | 12.72 |

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m² , Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

Electrical characteristics @ Rear Power Gain

| | | | | | | |
|-------------------------|-----|------|------|------|------|------|
| 5% Max Power:Pmax | (W) | 525 | 530 | 535 | 540 | 546 |
| 5% Module Efficiency:η | (%) | 23.6 | 23.8 | 24.1 | 24.3 | 24.6 |
| 15% Max Power:Pmax | (W) | 575 | 580 | 586 | 592 | 598 |
| 15% Module Efficiency:η | (%) | 25.9 | 26.1 | 26.4 | 26.6 | 26.9 |
| 25% Max Power:Pmax | (W) | 625 | 631 | 637 | 643 | 650 |
| 25% Module Efficiency:η | (%) | 28.1 | 28.4 | 28.6 | 28.9 | 29.2 |

TEMPERATURE CHARACTERISTICS

| | |
|---------------------------------|-----------|
| Temperature coefficient of Pmax | -0.24%/°C |
| Temperature coefficient of Voc | -0.22%/°C |
| Temperature coefficient of Isc | 0.04%/°C |
| NMOT | 44±2°C |

MECHANICAL DATA

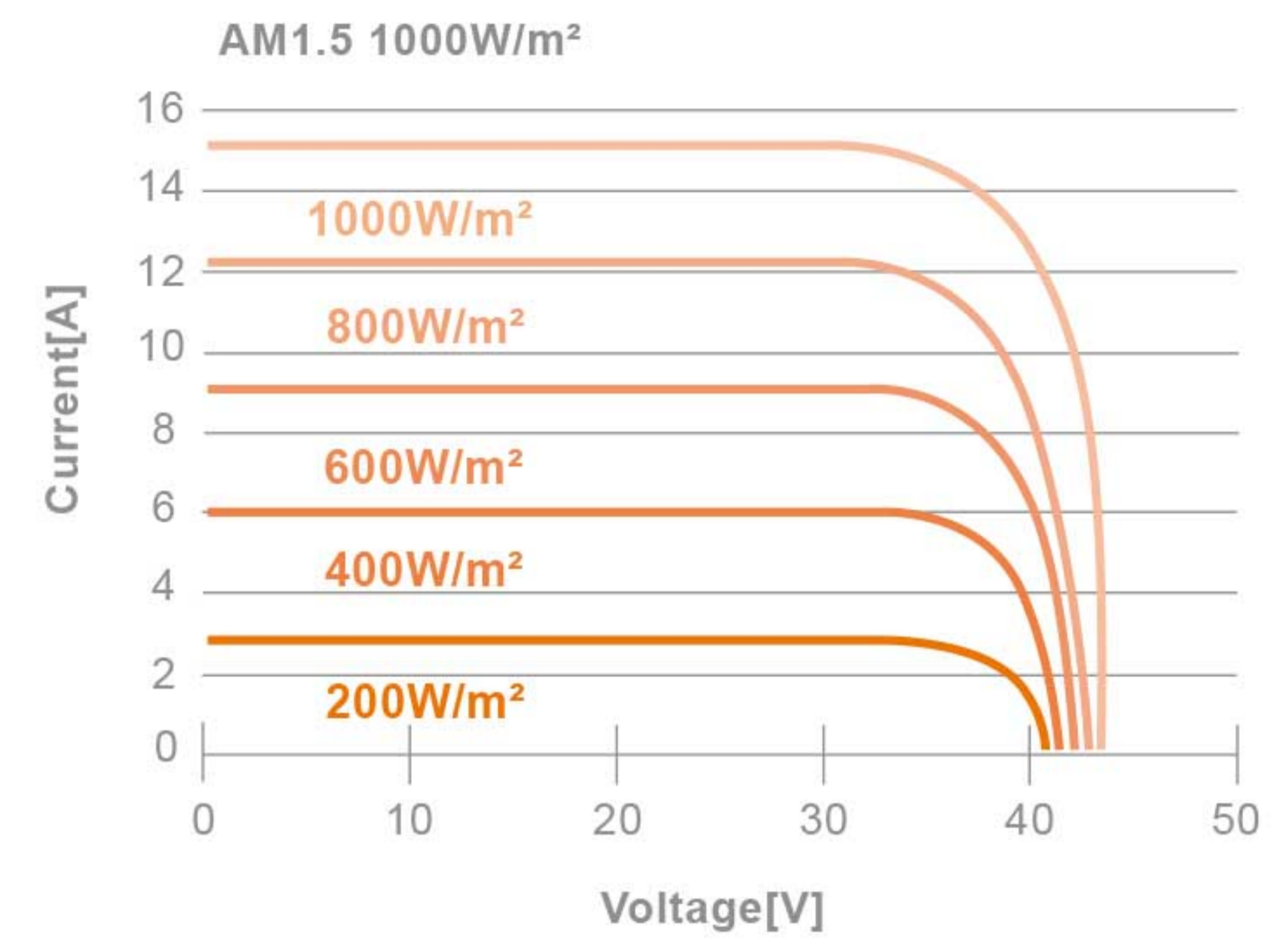
| | |
|-------------------|--|
| Cell Type | Mono-Crystalline HJT |
| Cell Arrangement | 108pcs (2(6×9)) |
| Dimension (L×W×H) | 1961 x 1134 x 30 mm |
| Weight | 27.1 kg |
| Front Glass | 2.0mm high transmittance, AR coated tempered glass |
| Rear Glass | 2.0mm heat strengthened glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68, 3 Bypass Diodes |
| Cable Type | 4mm ² |
| Length of Cable | 1200mm,length can be customized |
| Connector | Compatible with MC4 PV Connector |

PACKING MANNER

| | |
|-----------------|-------|
| Packing Type | 40'HQ |
| Piece/Pallet | 36 |
| Piece/Container | 864 |

*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, ECO DELTA POWER CO., LTD Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures

