



TD-(530-550)MCG-144HC

MODULE SIZE
2279*1134*30mm

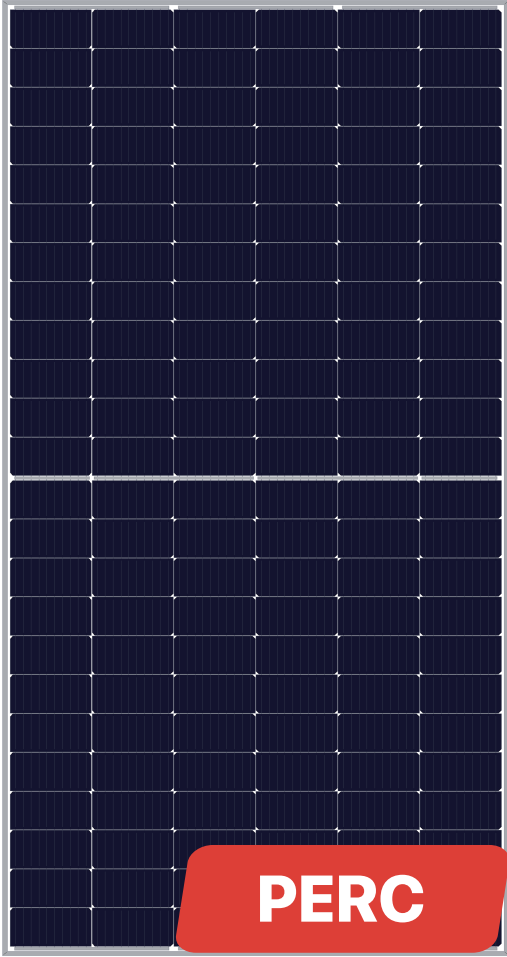
POWER OUTPUT RANGE
530W - 550W

POSITIVE POWER TOLERANCE
0 - + 3%

MONOCRYSTALLINE MODULE
144 CELL

MAXIMUM EFFICIENCY
21.28%

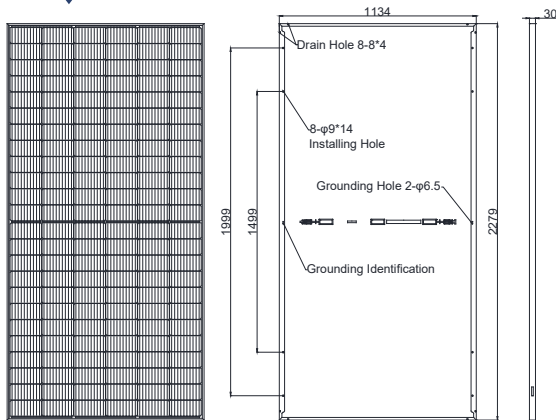
LINEAR PERFORMANCE WARRANTY
15 Year Product Warranty
30 Year Linear Power Warranty



- Competitive Low Light Performance
- Reduced Power Loss by Minimising the Effect of Shadow Shading
- High Density Encapsulation
- Multi-Busbar Technology
- 2400pa Wind Load
5400pa Snow Load
- LCOE BOS
Reduced BOS & Increased ROI

TIDE SOLAR

DIMENSIONS OF PV MODULE



STRUCTURAL CHARACTERISTICS

| | |
|-----------------|---|
| Module Size | 2279x1134x30mm |
| Weight | 31kg |
| Cell | single crystal PERC 182x91mm(144pieces) |
| Glass | 2.0 mm/2.0 mm |
| Frame | anodized aluminum alloy |
| Junction Box | IP68, 3 diodes |
| Output Lead | 4.0mm ² 300mm(+)/ 300mm(-) or customized |
| Mechanical Load | front 5400pa / back 2400pa |

ELECTRICAL CHARACTERISTICS

| Component Model | TD-530MCG-144HC | TD-535MCG-144HC | TD-540MCG-144HC | TD-545MCG-144HC | TD-550MCG-144HC |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Power (PMP) | STC 530 | STC 535 | STC 540 | STC 545 | STC 550 |
| Open Circuit Voltage (VOC) | 49.0 | 49.2 | 49.4 | 49.6 | 49.8 |
| Short Circuit Current (ISC) | 13.76 | 13.81 | 13.84 | 13.94 | 13.99 |
| Maximum Power Voltage (VMP) | 41.48 | 41.65 | 41.82 | 41.99 | 42.15 |
| Maximum Power Current (IMP) | 12.78 | 12.85 | 12.92 | 12.98 | 13.05 |
| Component Efficiency (η) | 20.56 | 20.76 | 20.95 | 21.14 | 21.28 |
| Power Tolerance | (0, +3%) | | | | |
| Maximum System Voltage | 1500V DC | | | | |
| Maximum Rated Fuse Current | 30A | | | | |

STC: Irradiance 1000 W/m² module temperature 25 °C AM=1.5

TEMPERATURE CHARACTERISTICS

| | |
|--|--------------|
| Maximum Power Temperature Coefficient | -0.35 % / °C |
| Temperature Coefficient Of Open Circuit Voltage | -0.27 % / °C |
| Temperature Coefficient Of Short Circuit Current | +0.05 % / °C |
| Working Temperature | -40 ~ +85 °C |
| Nominal Operating Cell Temperature (NOCT) | 45 ± 2 °C |
| Bifacial-Factor | 70%±10% |

PACKING METHOD

| | |
|---------------------------------|----------------|
| Module Size | 2279x1134x35mm |
| Container | 40' HQ |
| Quantity Per Pallet | 36 |
| Number Of Pallets Per Container | 20 |
| Quantity Per Container | 720 |

I-V Curve

