









NEOSTAR

3S+54 Dual-glass Module
460W-485W

Technical Features:

-  Partial Shading Optimisation
-  Better Temperature Coefficient
-  High Temperature Restriction
-  Micro-crack Resistance
-  Higher Power
-  Lower BOS
-  More Aesthetic Values
-  Infinite Technology



reddot winner 2023



Product
Warranty



Performance
Warranty



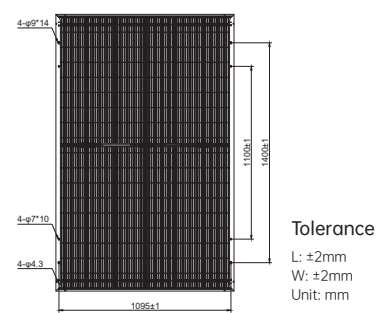
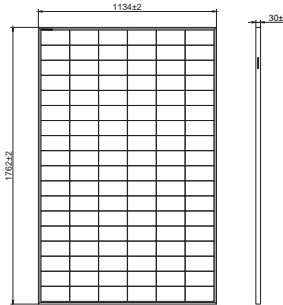
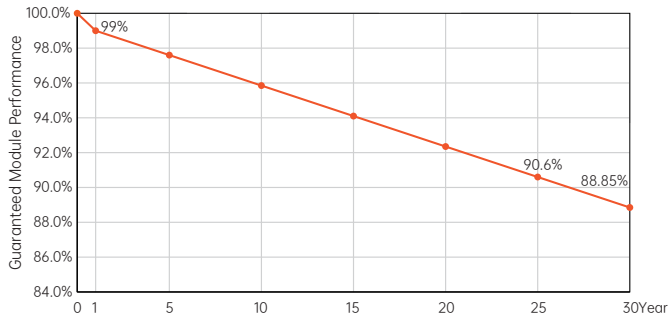
485W
Output

24.3%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30

30-year Linear Performance Warranty



| Electrical Characteristics (STC: AM1.5 1000W/m ² 25°C NOCT: AM1.5 800W/m ² 20°C 1m/s) | | | | | | | | | | | | Power Tolerance: 0~ + 3% | |
|---|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|--------------------------|--|
| Module Type | AIKO-A460-MCE54Db | | AIKO-A465-MCE54Db | | AIKO-A470-MCE54Db | | AIKO-A475-MCE54Db | | AIKO-A480-MCE54Db | | AIKO-A485-MCE54Db | | |
| Test Conditions | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | |
| P _{max} [W] | 460 | 349 | 465 | 352 | 470 | 356 | 475 | 360 | 480 | 364 | 485 | 367 | |
| V _{oc} [V] | 40.40 | 38.33 | 40.50 | 38.42 | 40.60 | 38.52 | 40.70 | 38.61 | 40.80 | 38.71 | 40.90 | 38.80 | |
| V _{mp} [V] | 33.80 | 31.07 | 33.90 | 32.16 | 34.00 | 32.26 | 34.10 | 32.35 | 34.20 | 32.45 | 34.30 | 32.54 | |
| I _{sc} [A] | 14.58 | 11.78 | 14.64 | 11.83 | 14.70 | 11.88 | 14.76 | 11.93 | 14.82 | 11.97 | 14.88 | 12.02 | |
| I _{mp} [A] | 13.62 | 10.89 | 13.72 | 10.97 | 13.83 | 11.05 | 13.94 | 11.14 | 14.04 | 11.22 | 14.15 | 11.31 | |
| Module Efficiency | 23.0% | | 23.3% | | 23.5% | | 23.8% | | 24.0% | | 24.3% | | |

Product Specification

| | |
|----------------|--|
| Cell type | N-Type ABC |
| Glass | Dual glass, 2.0+2.0mm coated semi-tempered glass |
| Frame | Black anodized aluminum |
| Cable | 4mm ² (IEC) 12AWG(UL) ±1200mm |
| No. of Cells | 108(6*18) |
| Junction Box | IP68, 3 bypass diodes |
| Connector | MC4-Evo2 |
| Weight | 24.5kg±3% |
| Dimension | 1762*1134*30mm |
| Package Detail | 37pcs per pallet /222pcs per 20'GP/ 962pcs per 40'HC |

Temperature Ratings (STC)

| | |
|---|-------------|
| Temperature Coefficient of I _{sc} | + 0.05%/ °C |
| Temperature Coefficient of V _{oc} | - 0.22%/ °C |
| Temperature Coefficient of P _{max} | - 0.26%/ °C |

Installation Guide

| | |
|----------------------------|-------------------------------|
| Operation Temperature | -40°C - +85°C |
| Maximum Series Fuse Rating | 25A |
| Protection Class | Class II |
| Maximum System Voltage | DC1500V |
| Maximum Static Loading | +5400Pa/-2400Pa |
| Hail Test | 25 mm diameter hail at 23 m/s |
| Fire Rating | IEC Class C |

