

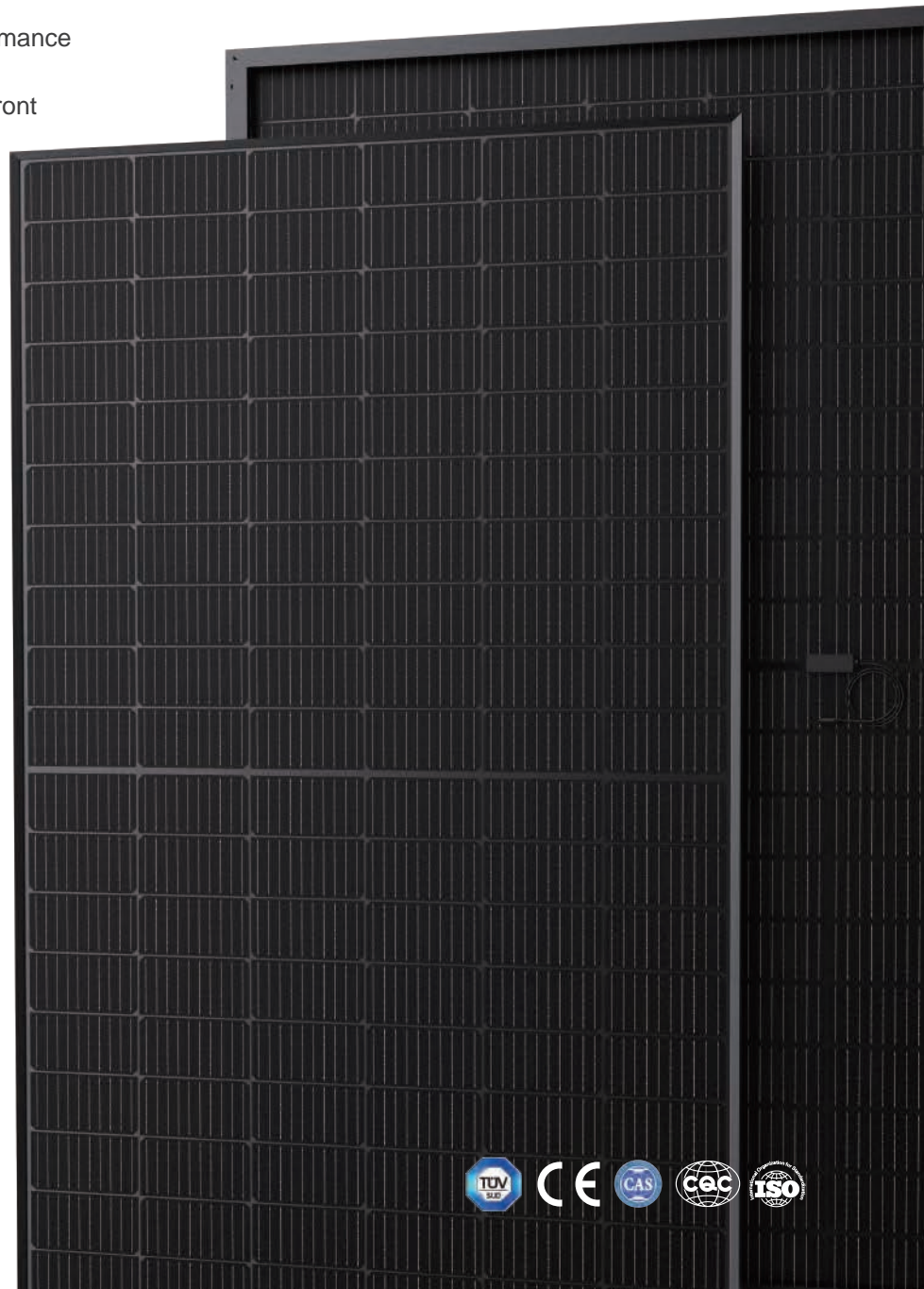


TO MAKE A BETTER LIFE

ORM60D35MR 450~465W

ALL BLACK PERC Bifacial

- Adopting multi-main shed (MBB) half-sheet technology
- Anti-PID performance
- Excellent low light power generation performance
- Load 2400 Pa at the back 5400 Pa at the front



COMPREHENSIVE PRODUCTS & SYSTEM CERTIFICATES

IEC 61215 / IEC 61730 / CE / JPEA / FIDE / INMETRO

ISO 45001:

2018/International standards for occupational health & safety

ISO 14001:

2015/Standards for environmental management system

ISO 9001:

2015/Quality management system

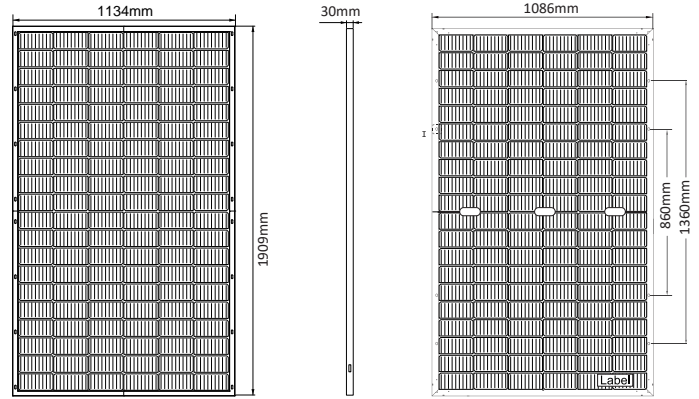


ORM60D35MR450~465W



MECHANICAL PARAMETERS

| | |
|------------------|--|
| Cell type | Monocrystalline |
| Weight | 28kg |
| Module dimension | 1909*1134*30mm |
| Number of cells | 120 (6*20) |
| Cable | 4mm ² |
| Junction box | IP68, 3 diodes |
| Connector | MC4 compatible connector |
| Packaging | 36 pieces per pallet 864pcs/40'HQ Container |



ELECTRICAL PERFORMANCE

STC: AM1.5 1000W/m² 25 °C

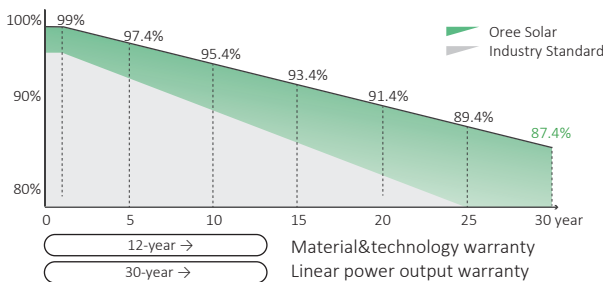
NOCT: AM1.5 800W/m² 20 °C 1m/s

| Model | ORM60D35-450/MR | | ORM60D35-455/MR | | ORM60D35-460/MR | | ORM60D35-465/MR | |
|--|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum power (W) | 450 | 341 | 455 | 344 | 460 | 348 | 465 | 352 |
| Voltage at maximum power point (VMP/V) | 34.75 | 32.87 | 35.06 | 33.08 | 35.37 | 33.29 | 35.69 | 33.50 |
| Current at maximum power point (IMP/A) | 12.93 | 10.37 | 12.96 | 10.40 | 12.99 | 10.45 | 13.02 | 10.51 |
| Open circuit voltage (VOC/V) | 41.72 | 39.20 | 41.92 | 39.41 | 42.12 | 39.62 | 42.33 | 39.97 |
| Short circuit current (ISC/A) | 13.66 | 11.00 | 13.69 | 11.05 | 13.71 | 11.10 | 13.73 | 11.15 |
| Component efficiency (%) | 20.79% | | 21.02% | | 21.25% | | 21.48% | |
| Power tolerance | 0~+5W | | | | | | | |
| Temperature Coefficient of Isc(α _{Isc}) | +0.05%/ °C | | | | | | | |
| Temperature Coefficient of Voc(β _{Voc}) | -0.275%/ °C | | | | | | | |
| Temperature Coefficient of Pmax(γ _{Pmp}) | -0.350%/ °C | | | | | | | |

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| Gain | Parameter | ORM60D35-450/MR | ORM60D35-455/MR | ORM60D35-460/MR | ORM60D35-465/MR |
|------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| 5% | Maximum Power (Pmax) | 473Wp | 478Wp | 483Wp | 488Wp |
| | Module Efficiency STC (%) | 21.85% | 22.08% | 22.31% | 22.55% |
| 15% | Maximum Power (Pmax) | 518Wp | 523Wp | 529Wp | 535Wp |
| | Module Efficiency STC (%) | 23.93% | 24.16% | 24.44% | 24.70% |

SUPERIOR WARRANTY



WORKING PARAMETERS

| | |
|---------------------------------------|-----------------|
| Maximum system voltage | 1500V (TUV) |
| Operating temperature | -40 °C ~ +85 °C |
| Maximum series fuse rating | 25A |
| Maximum static load, front side | 5400pa |
| Maximum static load, back side | 2400pa |
| Nominal battery operating temperature | 44±2 °C |
| Application level | Class A |

CHARACTERISTICS

