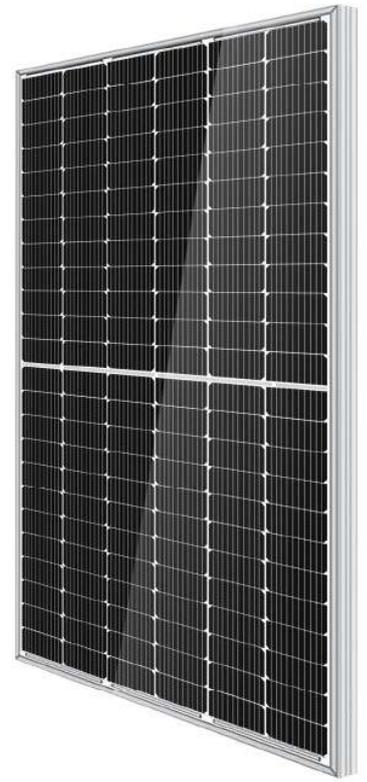


COULEE ULTRA SOLAR MODULE

High Efficiency Half-cut Cell Series

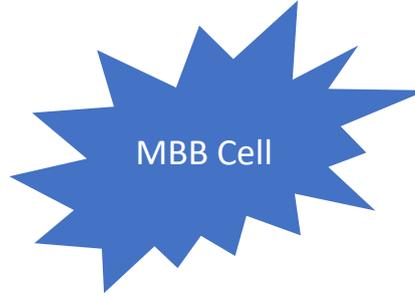


72 × 2 CELL
MONOCRYSTALLINE MODULE

530-550Wp
POWER OUTPUT RANGE

21.28%
MAXIMUM EFFICIENCY

0 - +5Wp
POSITIVE POWER TOLERANCE



Ideal For Large Scale Installations

- Reduce BOS cost by connecting more modules in a string
- Up to 1500VDC system voltage

Maximum Limited Space

- Up to 212.8W/m² power density

Highly Reliable Due to Stringent Quality Control

- Over 30 in-house tests (UV, TC, HF, etc.)
- In-house testing goes well beyond certification requirements
- Fire Class A tested
- 100% EL double inspection

Severe Weather Resilience

- 2400Pa wind load
- 5400Pa snow load
- 35mm hail stones at 97km/h

Reduced Hot Spot Risk

- With optimized electrical design and lower operating current

Linear Performance Warranty



Coulee Ultra is the top performance reference solar module series. Based on the advanced mono wafer and Half-cut technology, Ultra offers as much power as 550W with outstanding module efficiency up to 21.28%.

Thanks to the Half-Cut technology, the cell internal resistance is reduced, which provides an additional module power even while shading, cloudy weather, and in low light conditions.

MBB cells: New circuit design, more uniform current collection capability, reducing the current heat loss of the internal cells.

Product Certificates

IEC/EN 61215, IEC/EN 61730

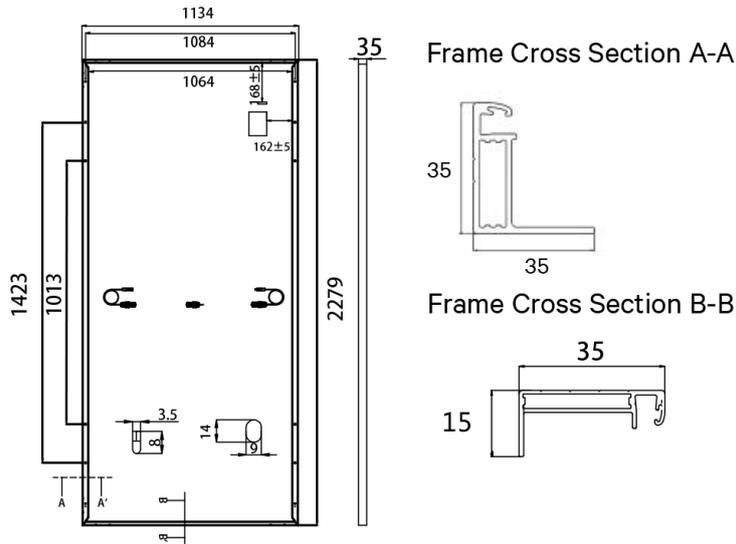


CAUTIONS:
READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE
USING THE PRODUCT.

Construction Materials

| | |
|------------------------|---|
| Front Glass | 3.2mm, Low Iron, Tempered Glass |
| Frame | Anodized Aluminum Alloy |
| Junction Box | IP68 Rated |
| Output Cables | 4mm ² , Landscape: 1400mm, Portrait: N 200mm/P 300mm |
| Connector | MC4 Compatible |
| Encapsulation Material | EVA |
| Backsheet | TPT (White OR Black) |
| Fixing Adhesive | Silicone Sealant |

Mechanical Diagrams



Electrical Parameters at STC

| Module type | CLM-540M-72 Series | | | | |
|--|--------------------|-------|-------|-------|-------|
| Rated Maximum Power (P _{max} /W) | 530 | 535 | 540 | 545 | 550 |
| Maximum Power Voltage (V _{mp} /V) | 40.80 | 41.00 | 41.20 | 41.40 | 41.60 |
| Open-circuit Voltage (V _{oc} /V) | 49.00 | 49.20 | 49.40 | 49.60 | 49.80 |
| Maximum Power Current (I _{mp} /A) | 13.00 | 13.05 | 13.11 | 13.17 | 13.23 |
| Short-circuit Current (I _{sc} /A) | 13.76 | 13.81 | 13.87 | 13.93 | 13.99 |
| Module Efficiency (%) | 20.51 | 20.70 | 20.90 | 21.09 | 21.28 |

STC: Irradiance 1000W/m, Cell Temperature 25°C, AM = 1.5

Packaging Configuration

Pieces Per Pallet: 60 | Pallets Per 40HQ: 10 | Pieces Per 40HQ: 620

Mechanical Data

| | |
|-------------------|------------------------|
| Solar Cells | Mono 182mm × 182mm |
| Number of Cells | 72 × 2pcs |
| Module Dimensions | 2279mm × 1134mm × 35mm |
| Weight | 29kg |

Temperature Coefficient

| | |
|---|-------------|
| Power Tolerance | 0 ~ +3% |
| Temperature Coefficient of P _{max} | -0.36%/°C |
| Temperature Coefficient of V _{oc} | -0.28%/°C |
| Temperature Coefficient of I _{sc} | +0.05%/°C |
| NOTC | (43 ± 2) °C |

Operating Conditions

| | |
|--------------------------------|---------------|
| Max. System Voltage | 1500VDC (IEC) |
| Max. System Fuse Rating | 25A |
| Operating Temperature | -40 ~ +85°C |
| Max. Static Load, Front (Snow) | 5400Pa |
| Max. Static Load, Back (Wind) | 2400Pa |

IV Curves

