

COULEE SOLAR MODULE

84 CELL
MONOCRYSTALLINE MODULE

400-420W
POWER OUTPUT RANGE

18.35%
MODULE EFFICIENCY

0 - +3%
POSITIVE POWER TOLERANCE

Coulee Limited, electrical specialists and creators of energy saving designs for domestic and commercial applications.

Coulee solar panel manufacturing processes utilize the best quality materials available and industry-leading equipment from around the world. We stand behind our promise of quality workmanship in all of our solar products.

Coulee super-high efficiency module adopt Advanced PERC(Passivated Emitter and Rear Cell) technology. Its higher conversion efficiency and better anti-PID performance bring installers the maximize power yield per unit area.

Management System

ISO9001: Quality Management System
ISO14001: Environmental Management System
OHSAS 18001: Occupation Health and Safety Management System



Coulee Limited
<https://couleenergy.com>



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 18.35W/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

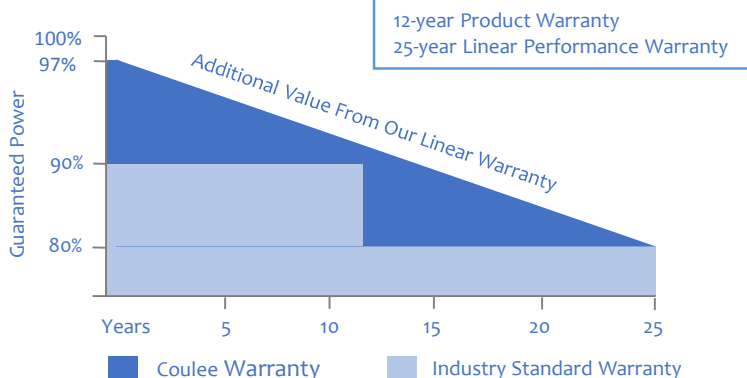
Severe Weather Resilience

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

Durability Against Extreme Environmental Conditions

- Salt mist corrosion tested, perfect for harsh climatic conditions

Linear Performance Warranty

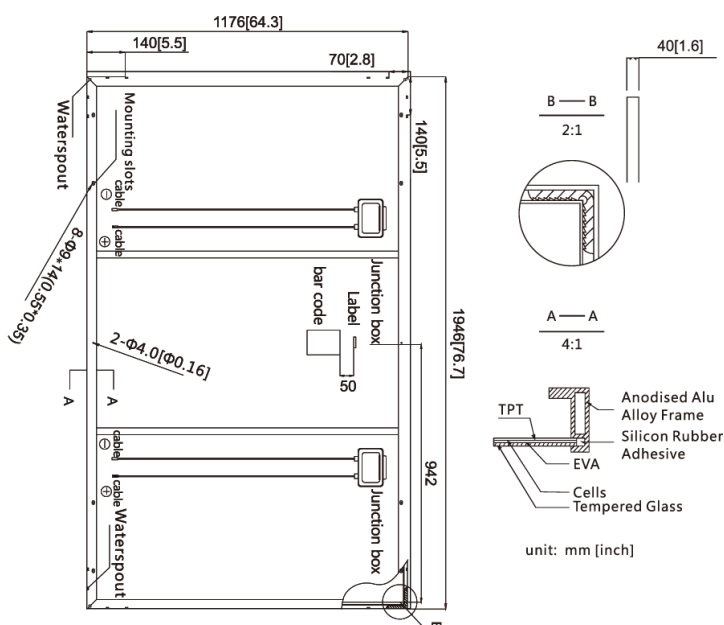


12-year Product Warranty
25-year Linear Performance Warranty

■ Coulee Warranty ■ Industry Standard Warranty

Construction Materials

Front Glass	3.2mm, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP67 Rated
Output Cables	4mm ² , Length: 900mm
Connector	MC4 (IP67)
Encapsulation Material	EVA
Backsheet	TPT (White OR Black)
Fixing Adhesive	Silicone Sealant

Mechanical Diagrams

Electrical Parameters at STC

Module type	CL400M6-84 Series		
Rated Maximum Power (P _{max} /W)	400	410	420
Maximum Power Voltage (V _{mp} /V)	44.25	44.47	44.78
Open-circuit Voltage (V _{oc} /V)	54.87	55.01	55.48
Maximum Power Current (I _{mp} /A)	9.05	9.22	9.38
Short-circuit Current (I _{sc} /A)	9.39	9.60	9.88
Module Efficiency (%)	17.48	17.92	18.35

 STC: Irradiance 1000W/m², Cell Temperature 25°C, AM = 1.5

Packaging Configuration

Pieces Per Pallet: 52 | Pallets Per 40HQ: 9 | Pieces Per 40HQ: 468

Mechanical Data

Solar Cells	Mono 156.75mm × 156.75mm
Number of Cells	84Cells (7 × 12)
Module Dimensions	1946mm × 1176mm × 40mm
Weight	25.3kg

Temperature Coefficient

Power Tolerance	0 ~ +3%
Temperature Coefficient of P _{max}	(-0.43 ± 0.05)%/°C
Temperature Coefficient of V _{oc}	(-0.33 ± 0.02)%/°C
Temperature Coefficient of I _{sc}	(0.058 ± 0.01)%/°C
NOTC	(45 ± 2) °C

Operating Conditions

Max. System Voltage	1500VDC (IEC)
Max. System Fuse Rating	15A
Operating Temperature	-40 ~ +85°C
Max. Static Load, Front (Snow)	5400Pa
Max. Static Load, Back (Wind)	2400Pa

IV Curves
