# **COULEE SOLAR MODULE**

54-CELL MONOCRYSTALLINE MODULE

295-310W **POWER OUTPUT RANGE** 

20.70% **MAXIMUM 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. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

#### **Product Certificates**

IEC/EN 61215, IEC/EN 61730

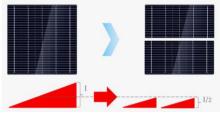


**CAUTIONS:** 

**READ SAFETY AND INSTALLATION** INSTRUCTIONS BEFORE USING THE PRODUCT.



**Coulee Limited** https://couleenergy.com



Module Available



#### **Our Most Versatile Product**

- Compatible with all major BOS components and system designs
- Up to 1500Vpc system voltage

#### **Maximum Limited Space**

• Up to 207W/m<sup>2</sup> 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**

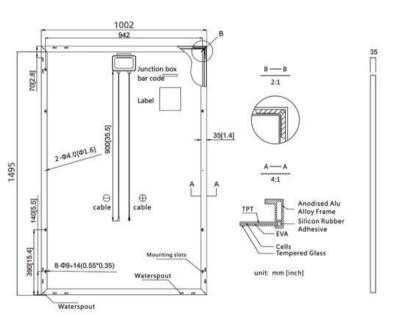




#### **Construction Materials**

Front Glass	3.2mm, Low Iron, Tempered Glass			
Frame	Anodized Aluminum Alloy			
Junction Box	IP67 Rated			
Output Cables	TUV 1 × 4mm², Length: 900mm			
Connector	MC4 (IP67)			
Encapsulation Material	EVA			
Backsheet	TPT			
Fixing Adhesive	Silicone Sealant			

# **Mechanical Diagrams**



#### **Mechanical Data**

Solar Cells	Mono 158.75mm × 158.75mm
Number of Cells	54Cells (6 × 9)
Module Dimensions	1495mm × 1002mm × 35mm
Weight	16.okg

### **Temperature Coefficient**

Power Tolerance	0 ~ +3%		
Temperature Coefficient of Pmax	-0.37%/°C		
Temperature Coefficient of Voc	-0.28%/°C		
Temperature Coefficient of Isc	o.o48 %/°C		
NOTC	(45 ± 2) ℃		

# **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		

#### **Electrical Parameters at STC**

Module type	CLM-300M-54 Series					
Rated Maximum Power (Pmax/W)	295	300	305	310		
Maximum Power Voltage (Vmp/V)	30.35	30.59	30.75	30.86		
Open-circuit Voltage (Voc/V)	37.38	37.17	37-53	37.71		
Maximum Power Current (Imp/A)	9.71	9.81	9.92	10.05		
Short-circuit Current (Isc/A)	10.28	10.30	10.36	10.44		
Module Efficiency (%)	19.70	20.03	20.36	20.70		
STC: Irradiance 1000W/m, Cell Temperature 25°C, AM = 1.5						

# **Packaging Configuration**

Pieces Per Carton: 2 | Pieces Per 20GP/40HQ: 364/900 Pieces Per Carton: 30 | Pieces Per 20GP/40HQ: 420/990

