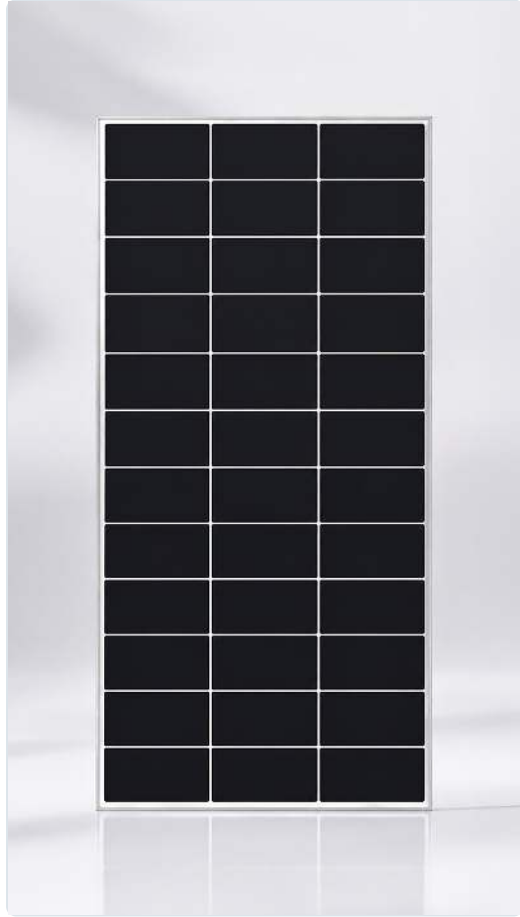


CLM-150MBC — Infinite Technology

Compact rigid-glass Back Contact (BC) mono-facial module engineered for off-grid 12V systems

HPBC standard · ABC / TBC optional | OEM / ODM ready



Electrical Characteristics — STC

Maximum Power (P_{max})	150W
Power Tolerance	0 to +3%
Max Power Voltage (V_{mp})	22.86V
Max Power Current (I_{mp})	6.57A
Open Circuit Voltage (V_{oc})	26.1V
Short Circuit Current (I_{sc})	6.97A
Max System Voltage	1000V DC
Max Series Fuse Rating	15A

STC: irradiance 1000W/m², AM1.5 spectrum, cell temperature 25°C.

Temperature

Operating Temp.	−40 to +70°C
Coeff. P_{max}	−0.26%/°C
Coeff. V_{oc}	−0.22%/°C
Coeff. I_{sc}	+0.05%/°C

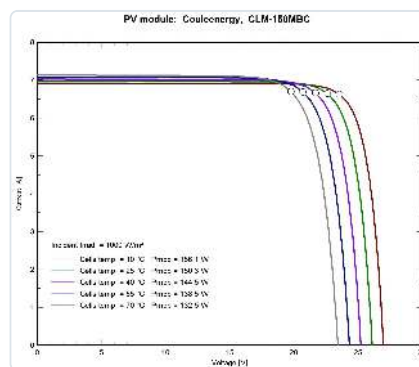
Safety

Protection Class	Class II
Bypass Diodes	2
Junction Box	IP67
Fire Rating	IEC 61730 Class C

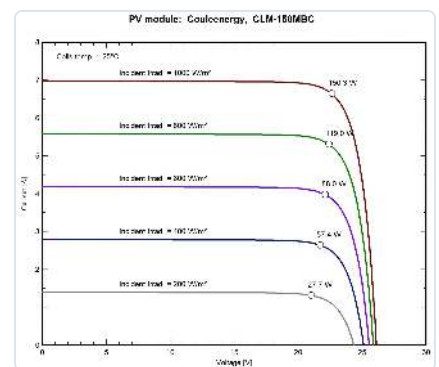
Mechanical

Cell Type	Back Contact Mono HPBC std, ABC/TBC opt.
Cell Array	3 × 12
Dimensions (L×W×H)	1160 × 580 × 30mm
Net Weight	7.5kg
Frame	Silver / black anodized aluminium
Glass / Backsheet	Tempered front glass / white or black
Cable & Connector	4.0mm ² cable, MC4 connectors
Max Static Load	Front +5400Pa / Back −2400Pa
Hail Resistance	35mm @ 27.2m/s (enhanced tier)

I-V Performance Curves



I-V at varying cell temperature (1000W/m²)



I-V at varying irradiance (25°C)

KEY FEATURES — BC TECHNOLOGY

- Partial Shading Optimisation**
A single shaded BC cell loses only ~12.9% of its power, versus ~33.9% for comparable TOPCon.¹
- Better Temperature Coefficient**
Low P_{max} coefficient (−0.26%/°C) retains more rated power as cell temperature rises.
- High Temperature Restriction**
Built to limit power loss under sustained heat, rated for continuous operation to +70°C.
- Micro-crack Resistance**
Busbar-free rear interconnection reduces stress points, improving durability in transport and cycling.

BUILT FOR OFF-GRID

Purpose-built for off-grid 12V power

Designed for RVs, caravans, boats, agricultural equipment, remote monitoring systems, and off-grid battery charging—where installation space and weight are at a premium.

OEM / ODM: cell layout · frame colour · size · voltage · private-label · low-MOQ trials

Email info@couleenergy.com • Tel +17377020119 • Web couleenergy.com

¹ TÜV NORD simulation study, pv magazine, Jul2026

Values at STC; specifications subject to change — confirm at time of order

Request a Quote