

CLM-125MF — InfiniteTechnology

Ultra-light ETFE flexible module built on TOPCon cells, engineered for curved surfaces, marine decks, RVs, and 12 V off-grid systems

Bendable · Frameless ETFE laminate | OEM / ODM ready



KEY FEATURES



N-Type TOPCon Cell Architecture

A tunnel oxide and doped polysilicon layer passivate the rear contact, cutting recombination and raising efficiency above conventional PERC.



Low LID & LeTID

N-type wafers avoid the boron-oxygen defects behind light-induced degradation in p-type PERC, so output holds up better from year one.



Strong Low-Light Performance

Keeps producing through overcast skies, dawn, and dusk — the conditions marine and RV systems mostly run in.



Stable High-Temperature Operation

A $-0.30\%/^{\circ}\text{C}$ Pmax coefficient and $+85^{\circ}\text{C}$ ceiling keep output predictable on hot decks and roofs.



Ultra-Light Flexible Laminate

Frameless construction bends to follow curved roofs and decks, at a fraction of rigid glass weight.



Durable Self-Cleaning ETFE Surface

High light transmission, a textured self-cleaning finish, and strong UV and salt-spray resistance.

Purpose-built for marine and mobile power. For boats, RVs, caravans, agricultural equipment, and portable charging — where curved surfaces, low weight, and limited space rule out rigid glass.

Electrical Characteristics — STC

Maximum Power (Pmax)	125 W
Power Tolerance	0 to +3%
Max Power Voltage (Vmp)	19.27 V
Max Power Current (Imp)	6.49 A
Open Circuit Voltage (Voc)	23.43 V
Short Circuit Current (Isc)	6.76 A
Module Efficiency	19.4%
Max System Voltage	600 V DC
Max Series Fuse Rating	15 A

STC: irradiance 1000 W/m², AM1.5 spectrum, cell temperature 25°C. NMOT per IEC 61215.

Temperature

Operating Temp.	-40 to +85°C
NMOT	41 ± 3°C
Coeff. Pmax	-0.30%/°C
Coeff. Voc	-0.25%/°C
Coeff. Isc	+0.046%/°C

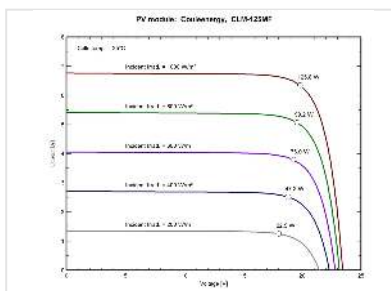
Safety

Protection Class	Class II
Bypass Diodes	1
Junction Box	≥IP67
Fire Rating	Class C

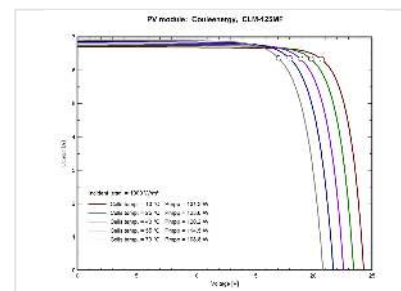
Mechanical

Cell Type	N-Type Monocrystalline TOPCon
Cell Array	3 × 11
Dimensions (L×W×H)	1090 × 590 × 2.7 mm (5-layer) / 3.3 mm (9-layer)
Net Weight	2.4 kg (5-layer) / 2.7 kg (9-layer)
Min. Bend Radius	~ 300 mm
Construction	Frameless flexible laminate
Front Sheet	ETFE, self-cleaning
Cable & Connector	90 cm or customizable · MC4
Mounting	Corner grommets / adhesive

I-V PERFORMANCE CURVES



I-V at varying irradiance (25°C)



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

OEM / ODM Manufacturing: Flexible Design · Low MOQs · Fast Prototyping · Private Label

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<https://couleenergy.com>

Values at STC unless otherwise stated; specifications subject to change — confirm at time of order.

IEC
61215
DESIGN QUAL.

IEC
61730
SAFETY QUAL.

ISO
9001:2015
QUALITY SYS.

Request a Quote