

CLM-660M-66 Series — Infinite Possibilities

Premium back-contact dual-glass modules for utility-scale power plants and commercial rooftops

HPBC 2.0 standard · ABC / TBC optional | OEM / ODM ready

640~670 W

132 half-cut BC cells · Bifacial

24.8%

MAX MODULE EFFICIENCY

0~3%

POWER TOLERANCE

1%

FIRST-YEAR POWER DEGRADATION

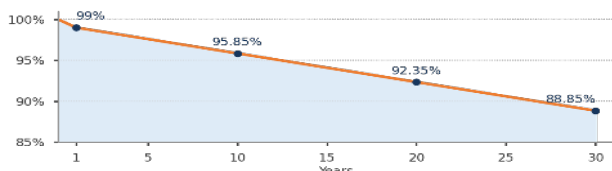
0.35%

YEAR 2-30 POWER DEGRADATION

BC-CELL

LOWER OPERATING TEMPERATURE

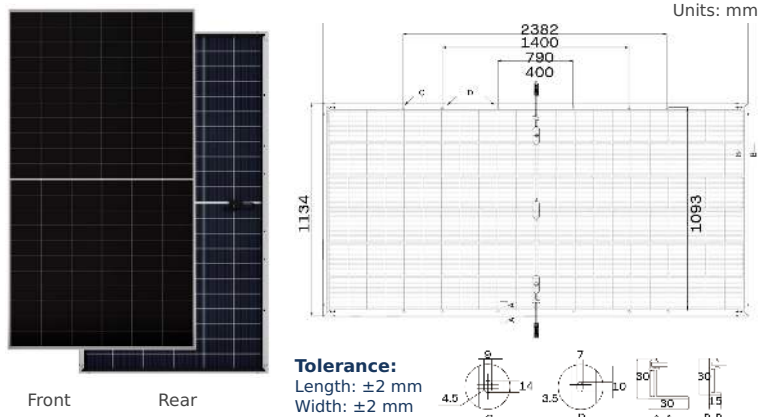
30-Year Power Warranty



Mechanical Parameters

Cell Type	N-type back contact (BC)
Cell Orientation	132 (6 × 22)
Junction Box	IP68, three diodes
Output Cable	4 mm ² , +400 / -200 mm (±1400 mm), customizable
Glass	Dual glass, 2.0 + 2.0 mm semi-tempered
Frame	Anodized aluminum alloy frame
Weight	32.5 kg
Dimensions (L × W × H)	2382 × 1134 × 30 mm
Packaging	36 pcs / pallet · 720 pcs / 40'HC

Module Views & Dimensions



- Advanced:** N-type back-contact cells + bifacial dual glass
- Higher Output:** Up to 24.8% efficiency + up to 25% bifacial power gain
- Aesthetic:** Zero front gridlines + seamless scenario integration
- Safer:** Enhanced anti-shading + lower cell temperature under shade

Electrical Characteristics

STC: AM1.5, 1000 W/m², 25 °C · Test uncertainty for P_{max} ±3%

Module Type	CLM-640M-66	CLM-645M-66	CLM-650M-66	CLM-655M-66	CLM-660M-66	CLM-665M-66
Testing Condition	STC	STC	STC	STC	STC	STC
Maximum Power (P _{max} / W)	640	645	650	655	660	665
Open Circuit Voltage (V _{oc} / V)	49.52	49.62	49.72	49.82	49.92	50.02
Short Circuit Current (I _{sc} / A)	16.38	16.46	16.54	16.62	16.70	16.78
Voltage at Max. Power (V _{mp} / V)	40.78	40.88	40.98	41.08	41.18	41.28
Current at Max. Power (I _{mp} / A)	15.69	15.78	15.86	15.94	16.03	16.11
Module Efficiency (%)	23.69	23.88	24.06	24.25	24.43	24.62

Electrical Characteristics with Different Rear-Side Power Gain

Reference bin: CLM-645M-66

P _{max} / W	V _{oc} / V	I _{sc} / A	V _{mp} / V	I _{mp} / A	P _{max} gain
645	49.62	16.46	40.88	15.78	0%
677	49.62	17.28	40.88	16.57	5%
710	49.62	18.11	40.88	17.36	10%
744	49.72	18.93	40.98	18.15	15%
776	49.72	19.75	40.98	18.94	20%
808	49.72	20.58	40.98	19.73	25%

Operating Parameters

Operational Temperature	-40 °C ~ +85 °C
Power Output Tolerance	0 ~ +3%
Maximum System Voltage	DC 1500 V (IEC)
Maximum Series Fuse Rating	35 A
Nominal Operating Cell Temperature	45 ± 2 °C
Protection Class	Class II
Fire Rating	IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400 Pa
Rear Side Maximum Static Loading	2400 Pa
Hailstone Test	25 mm hailstone at 23 m/s

Temperature Ratings (STC)

Temperature Coefficient of I _{sc}	+0.050 %/°C
Temperature Coefficient of V _{oc}	-0.200 %/°C
Temperature Coefficient of P _{max}	-0.260 %/°C

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

Email info@couleenergy.com · Tel +1 737 702 0119 · <https://couleenergy.com>

IEC
61215
DESIGN
QUAL.

IEC
61730
SAFETY
QUAL.

ISO
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QUALITY
SYS.

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