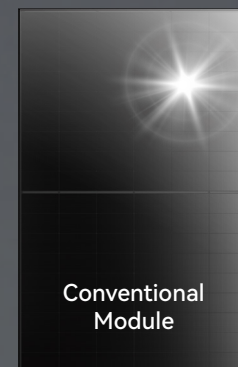
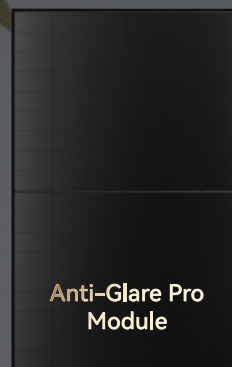


LONGI EcoLife Anti-Glare Pro

LR7-54HVB 455~475M

Pure-Black Glare-Free,
Neighbour-Friendly



Ultimate Anti-Glare, Far Exceeds Aviation Standards

Gridline-free BC Cells paired with Micro-structured Diffused Glass for Strong Glare Suppression
Reflected Luminance: 2480cd/m²*, Well Below 20000cd/m² Aviation Limit
TÜV AAA Anti-glare Certified | SGHAT Validated | Verified by TÜV, SPF & Leading European Photovoltaic Lab



Visual Elegance

Gentle Foggy Tone, High-Grade Matte Texture



INSTITUT FÜR
SOLARTECHNIK



Higher Power Generation

Powered by HPBC 2.0 Technology
Anti-Shading Design* Minimizes Power Loss



Reliable Safety

HW4 Hail Resistance
Weak Conduction Avoids Overheating, Shaded Temp Drops 60°C* Against Conventional Modules



23.27%

 MAX MODULE
EFFICIENCY

0~3%

 POWER
TOLERANCE

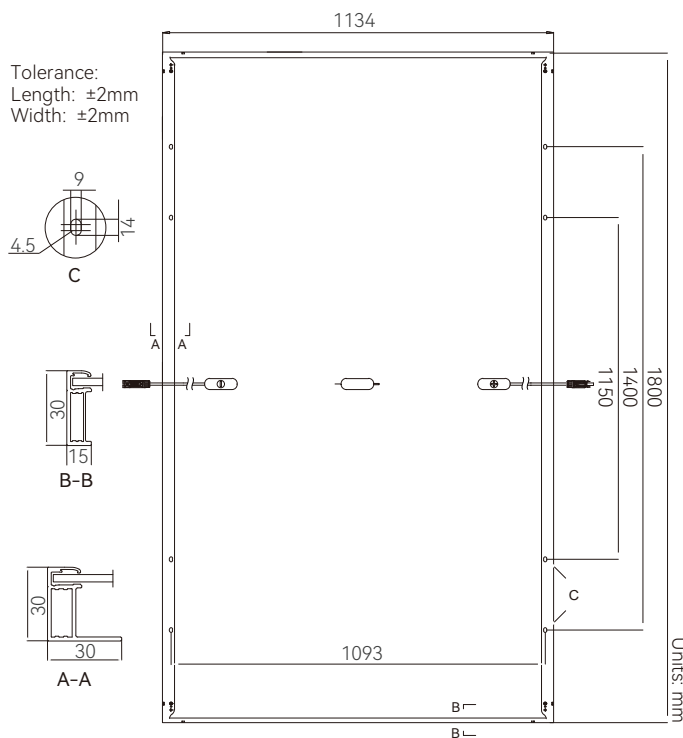
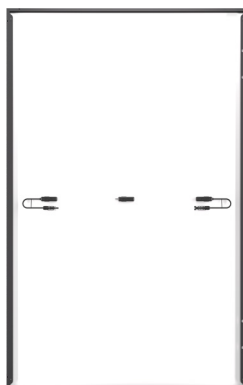
1%

 FIRST YEAR
POWER DEGRADATION

0.35%

 YEAR 2-30
POWER DEGRADATION

BC-CELL

 LOWER OPERATING
TEMPERATURE


Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm ² ; +400/-200mm/±1200mm length can be customized
Glass	Single glass, 3.2mm Anti-glare tempered glass
Frame	Black anodized aluminum alloy frame
Weight	21.6 kg
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20'GP / 864pcs per 40'HC

Remark: 17.5m trucks are rated at 30t load. Actual loading quantity is subject to vehicle specs.

Electrical Characteristics

 STC: AM1.5 1000W/m² 25°C

 Test uncertainty for P_{max}: ±3%

Module Type	LR7-54HVB-455M	LR7-54HVB-460M	LR7-54HVB-465M	LR7-54HVB-470M	LR7-54HVB-475M
Testing Condition	STC	STC	STC	STC	STC
Maximum Power (P _{max} /W)	455	460	465	470	475
Open Circuit Voltage (V _{oc} /V)	39.74	39.85	39.96	40.07	40.18
Short Circuit Current (I _{sc} /A)	14.63	14.73	14.83	14.93	15.03
Voltage at Maximum Power (V _{mp} /V)	32.69	32.81	32.93	33.05	33.16
Current at Maximum Power (I _{mp} /A)	13.92	14.03	14.13	14.23	14.33
Module Efficiency(%)	22.29	22.54	22.78	23.03	23.27

Operating Parameters

Module [T ₉₈] Max	70°C
Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	IEC Class C

Mechanical Loading

Minimum Design Load	1600Pa/1600Pa
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hail Class	HW4 ²

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