

LONGI

LONGI
Hi ROOF **E**

An Easy Solar System for Metal Roofs

HPBC
2.0

TaiRay



Essential Structure



Easy Installation



Engineered as One

15-year Warranty for
Materials and Processing



30-year Warranty for Extra
Linear Power Output

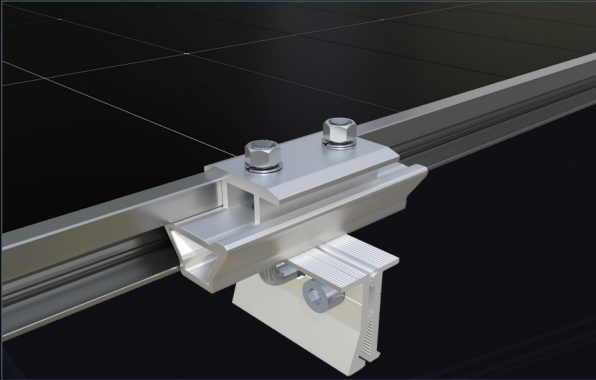


| System Overview |

System Structure	LONGi Hi ROOF E Module / Integrated Clamping
Module Mounting Method	Mechanical Connection

Integrated Clamping

System Components	Support Beam / Clamp / U-Bolt Roof Clamp A-Post / Roof Clamp B-Post
Material	Aluminum Alloy



Module Information

Module Dimensions	2382*1134*30mm
Module Weight	35.7 Kg
Cell Array	144 cells (6x24)
Junction Box	Independent junction box, IP68, 3 diodes
Glass	2mm+2mm double-layer semi-tempered glass

| Operating Parameters |

Operating Temperature	-40°C~+85°C
Open Circuit Voltage and Short Circuit Current Tolerance	±5%
Power Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC)
Maximum Fuse Rating Current	30A
Nominal Operating Cell Temperature (NOCT)	45±2°C
Safety Protection Class	Class II

| Load Capacity |

Maximum Static Load on Front Side (e.g. Snow, Wind)	5400Pa
Maximum Static Load on Back Side (e.g. Wind)	-3600Pa
Hail Test Certification	25mm Hailstone at the speed of 23m/s

*The load information for specific installation methods can be found in the product installation manual

| Warranty |

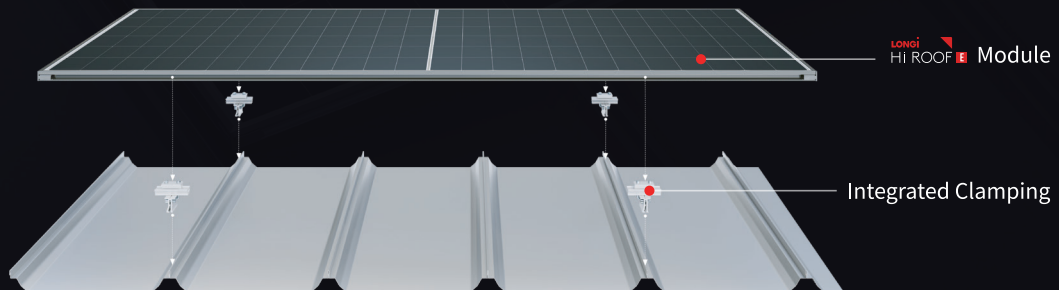
15-Year System Warranty
30-Year Extra Linear Power Output Guarantee

| Power Degradation |

First-Year Degradation	≤1%
Linear Degradation	0.35%
Power Output at Year 25	90.6%

| Temperature Coefficients (STC Test) |

Temperature Coefficient of Short-Circuit Current (Isc)	+0.050%/°C
Temperature Coefficient of Open-Circuit Voltage (Voc)	-0.200%/°C
Temperature Coefficient of Peak Power (Pmax)	-0.260%/°C



| Electrical Parameters |

*Maximum power test incorrect degree ± 3%

Module Type	LGi7-72HVD-640M	LGi7-72HVD-645M	LGi7-72HVD-650M	LGi7-72HVD-655M	LGi7-72HVD-660M	LGi7-72HVD-665M	LGi7-72HVD-670M
Test Condition	STC	STC	STC	STC	STC	STC	STC
Maximum Power (P _{max} /W)	640	645	650	655	660	665	670
Open-Circuit Voltage (V _{oc} /V)	53.70	53.80	53.90	54.00	54.10	54.20	54.30
Short-Circuit Current (I _{sc} /A)	15.13	15.21	15.29	15.37	15.45	15.52	15.60
Peak Power Voltage (V _{mp} /V)	44.36	44.46	44.56	44.66	44.76	44.86	44.96
Peak Power Current (I _{mp} /A)	14.43	14.51	14.59	14.67	14.75	14.83	14.91
Module Efficiency (%)	23.7	23.9	24.1	24.2	24.4	24.6	24.8

STC (Standard Test Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectrum AM1.5