



LONGi

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Hi ROOF S GLOBAL

Building-Friendly Efficiency-Optimized

Metal Roof 4-Way Defense Solar Solution

Superior Generation

HPBC 2.0 Cell Innovation Inside

Maximum Coverage

Same Roof More Capacity

4-Way Defense

Wind-Uplift, Water-Leak, Dust & Fire

Smart Operation

Damage-Free Connection & Robotic Build

| System Overview |

System Structure	Hi ROOF S Module / Structure Adhesive /Primer / Metal Roof
Module Mounting Method	Damage-Free Connection

Adhesive Information	
Package Size	590ml /2.6L
Product Warranty	15Years
Composition	One-Component Neutral Structural Silicone Sealant

*More specifictation refer to TDS and MSDS

| 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)

| Power Degradation |

First-year Degradation	≤1%
Linear Degradation	0.35%
Power Output at Year 25	90.60%

| 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

Module Information	
Module Dimensions	2376mm×1128mm×5mm
Module Weight	31kg
Cell Array	144 (6×24)
Junction box	Independent junction box, IP68, 3 diodes
Glass	2mm+2mm double-layer semi-tempered glass

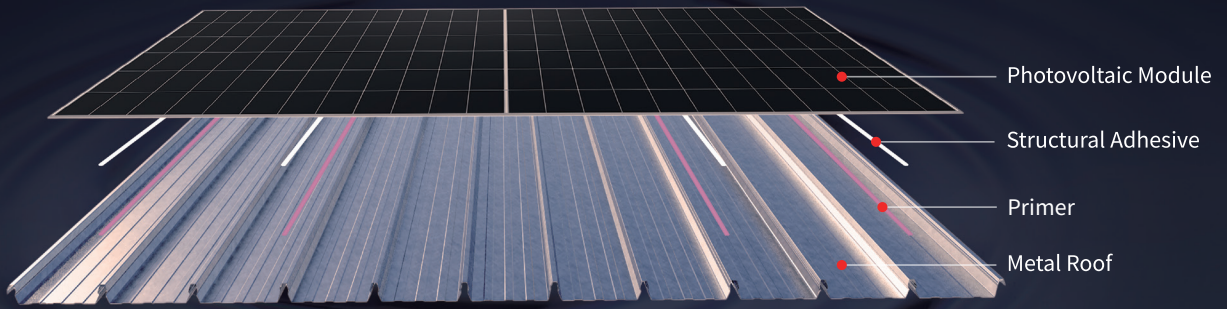
Maximum Fuse Rating Current	30A
Nominal Operating Cell Temperature (NOCT)	45±2°C
Safety Protection Class	Class II
Module Fire Rating	IEC Class C
System Fire Rating	IEC Class A

| Warranty |

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

| Load Capacity |

Maximum Static Load on Front Side (e.g., Snow, Wind)	5400Pa
Maximum Static Load on Back Side (e.g., Wind)	2400Pa
Hail Test Certification	25mm Hailstone at the speed of 23m/s 35mm Hailstone at the speed of 27.2m/s



| Electrical Specifications |

Electrical Parameters (STC)LGi7-72HYD /630-660M								Electrical Parameters (NOCT)LGi7-72HYD /630-660M							
Module Type	630M	635M	640M	645M	650M	655M	660M	630M	635M	640M	645M	650M	655M	660M	
Maximum Power (Pmax /W)	630	635	640	645	650	655	660	479.6	483.4	487.2	491.0	494.8	498.6	502.4	
Open-circuit Voltage (Voc/V)	53.82	53.92	54.02	54.12	54.22	54.32	54.42	51.15	51.24	51.34	51.43	51.53	51.62	51.72	
Short-circuit Current (Isc /A)	14.81	14.89	14.98	15.06	15.14	15.22	15.30	11.90	11.96	12.03	12.10	12.16	12.22	12.29	
Peak Power Voltage (Vmp/V)	44.47	44.57	44.67	44.77	44.87	44.97	45.07	42.26	42.36	42.45	42.55	42.64	42.74	42.83	
Peak Power Current (Imp /A)	14.17	14.25	14.33	14.41	14.49	14.57	14.65	11.36	11.42	11.49	11.55	11.61	11.68	11.75	
Module Efficiency (%)	23.5	23.7	23.9	24.1	24.3	24.4	24.6	23.5	23.7	23.9	24.1	24.3	24.4	24.6	

STC (Standard Test Conditions):Irradiance 1000W/m², Cell Temperature 25°C, Spectrum AM1.5
NOCT (Nominal Operating Cell Temperature Conditions):Irradiance 800W/m², Ambient Temperature 20°C, Spectrum AM1.5, Wind Speed 1m/s