LONGi

LONGi ROOF 5

BIPV The New Pinnacle

BIPV TaiRay HPBC 2.0

15 Product Materials & Process Warranty

30 Extra Linear Power Output Guarantee

Powerful Platform
Leading the industry with proven strength

Ultimate Performance
Maximum safety through relentless pursuit

High-Efficiency Power Generation
Stable returns made effortless

Architectural Integration
Minimalist aesthetic perfection

Precision Service
Worry-free experience guaranteed

System Overview ▶

System Roof Structure	LONGi Roof dedicated modules / Metal roof / Flexible waterproof layer / Insulation layer / Vapor barrier / Bottom plate
Module Mounting Method	Flexible connection

Profile Information	
Finite element non-slip roof system with wind uplift and leakage prevention	
Plate Thickness	0.6-0.8mm
Material	Galvalume steel plate / Galvalume magnesium steel plate

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

Operating Parameters ▶

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

Power Degradation ▶

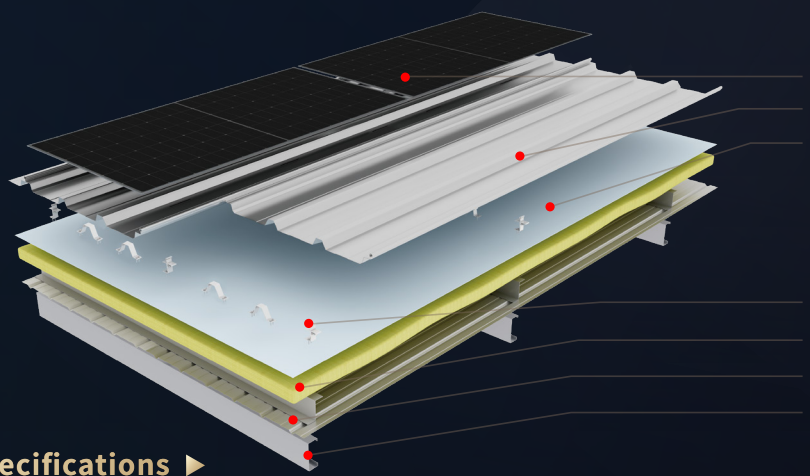
First-year Degradation	1%	**Linear Degradation**	0.35%	**Power Output at Year 25**	90.6%

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

Load Capacity ▶

Maximum Static Load on Front Side (e.g., Snow, Wind)	5400Pa
Maximum Static Load on Rear Side (e.g., Wind)	2400Pa
Hail Test Certification	Hailstone Diameter: 25mm Impact Velocity: 23m/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