

Hi-MO **X10** Scientist

LR8-48HVH

470~485M



Advanced:

TOP Efficiency, +5% Power, More Yield.



Value-Added:

A+ Anti-Shading, Less Loss.



Aesthetic:

No Gridlines, Scenario Integration.



Safe:

Prevent Overheating, Lower temperature under shade 60°C+ compare with conventional modules

HPBC
2.0



N N-type

Monofacial
Power Generation

25Y Product
Warranty

30Y Performance
Warranty

Complete System and Product Certifications

IEC 61215, IEC 61730

IEC62941: Guideline for module design qualification and type approval

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety



CE

THE smarter
AWARD

24.27%

MAX MODULE
EFFICIENCY

1%

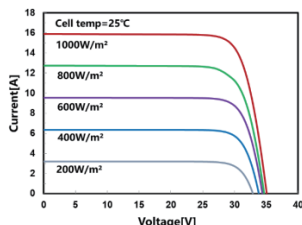
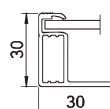
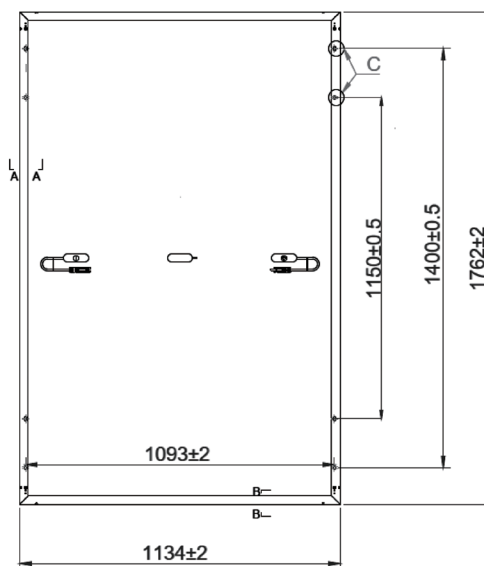
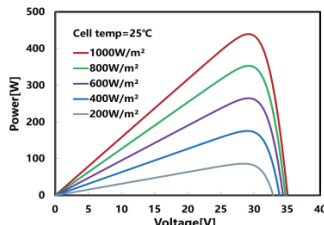
FIRST YEAR
POWER DEGRADATION

0.35%

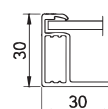
YEAR 2-30
POWER DEGRADATION

-0.26%/°C

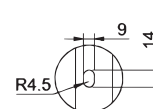
BETTER TEMPERATUR
COEFFICIENT

Current-Voltage Curves
(LR8-48HVH-485M)

Power-Voltage Curves
(LR8-48HVH-485M)


A-A 10:1



B-B 10:1



C-C 5:1

Mechanical Parameters

Cell Orientation	96 (6×16)
Junction Box	IP68, three diodes
Output Cable	4mm ² ; +400/-200mm/±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	21.4 kg
Dimension	1762×1134×30mm
Packaging	37pcs per pallet / 222pcs per 20'GP / 962pcs per 40'HC

Remark 17.5m trucks are rated at 30t load. Actual loading quantity is subject to vehicle specs.
Connector PV-LR5(Longi) PV-KST4-EVO2A/xy, PV-KBT4-EVO2Aky(Staubli)

Electrical Characteristics

•STC: Irradiance 1000W/m², Cell Temperature 25°C, AM1.5 (Test uncertainty for Pmax: ±3%)

Module Type	LR8-48HVH-470M	LR8-48HVH-475M	LR8-48HVH-480M	LR8-48HVH-485M
Testing Condition	STC	STC	STC	STC
Maximum Power (P _{max} /W)	470	475	480	485
Open Circuit Voltage (V _{oc} /V)	35.95	36.05	36.15	36.25
Short Circuit Current (I _{sc} /A)	16.58	16.70	16.83	16.96
Voltage at Maximum Power (V _{mp} /V)	29.63	29.73	29.83	29.93
Current at Maximum Power (I _{mp} /A)	15.86	15.98	16.09	16.20
Module Efficiency (%)	23.52	23.77	24.02	24.27

Operating Parameters

Module [T98] Max	70°C
Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	IEC Class C
Power Measurement Tolerance	±3%

Mechanical Loading

Min Designed Mechanical Load	1600Pa/1600Pa
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/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



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