

JW PVT Series

Power & Heat in One

Conversion Efficiency Exceeds **80%**

2110W

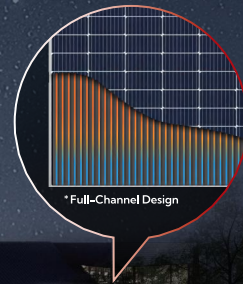
Maximum Total Power

1500W

Maximum Thermal Output

610W

Maximum Electrical Output



200L

Fully meets household hot water needs
2 pvt modules can heat 200L of water to 60°C



80%

Double gains
with 80% solar energy utilization



15%↑

Lower module operating temperature with liquid cooling
boosting power conversion efficiency by 15%



20%↑

Full-channel design, uniform heat exchange
heat exchange efficiency increased by over 20%

JW PVT-HT144N-R0 | n-type Liquid-cooled Photovoltaic/thermal Module

Hot Water Operating Performance | JW PVT-HT144N-R0-600

Irradiance Temp.	1000W/m ²			800W/m ²			600W/m ²			400W/m ²		
	Power	Heat	Efficiency	Power	Heat	Efficiency	Power	Heat	Efficiency	Power	Heat	Efficiency
40°C	575	1553	60.1%	460	994	48.1%	345	559	36.1%	230	249	24.0%
30°C	592	1518	58.7%	473	972	47.0%	355	547	35.2%	237	243	23.5%
25°C	600	1500	58.1%	480	960	46.4%	360	540	34.8%	240	240	23.2%
20°C	608	1483	57.4%	487	949	45.9%	365	534	34.4%	243	237	23.0%
10°C	625	1448	56.0%	500	926	44.8%	375	521	33.6%	250	232	22.4%
0°C	642	1412	54.6%	514	904	43.7%	385	508	32.8%	257	226	21.9%

*Hot water is heated gradually through a circulating heating process, with a temperature rise of 5-35°C. The irradiance is measured as global tilt irradiance (GTI). Under conditions of low irradiance and ambient temperature, the final heating temperature may not be reached (can be used as preheating).

Specification

Number of Cells	144pcs
Module Dimension	2278mm*1134mm*35mm
Weight	45.3kg
Front Glass	2.8mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +300mm/-180mm
Thermal Insulation	Backside EPP Insulation Layer
Diode Count	3
Flow	2.5-5L/min
Connector	JWC2 or MC4-EVO 2A
Fluid Ports	1/2" male threaded port
Packaging Configuration	30pcs/Pallet, 510pcs/40HQ Container

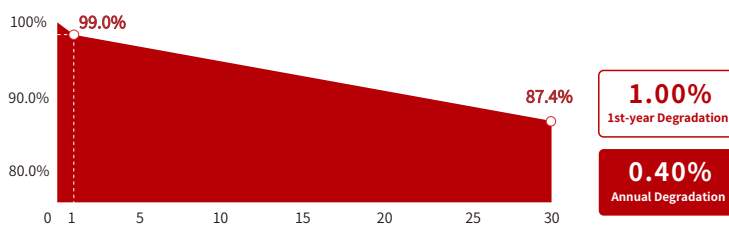
Operating Properties

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V (IEC)
Maximum Series Fuse Rating	30A
Static Load	Front side 5400Pa, Rear side 2400Pa

Temperature Coefficient

Temperature Coefficient of Pmax	-0.280%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C
Nominal Operating Cell Temperature	42±2°C

Linear Performance Warranty

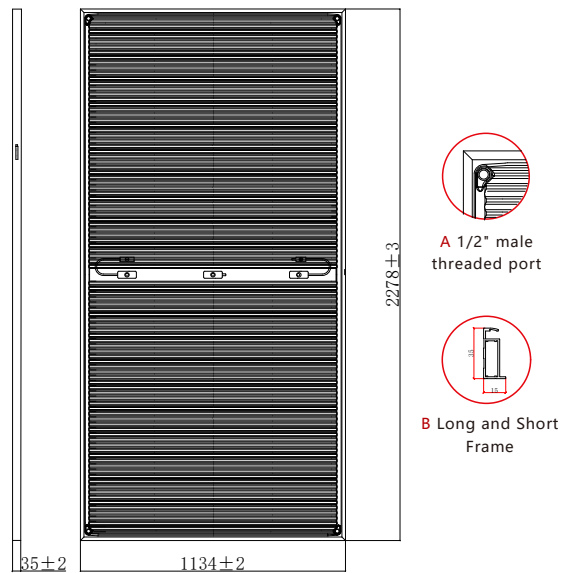


12 Years Product Material & Workmanship 30 Years Linear Performance Warranty

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Engineering Drawing (unit:mm)



Module Assembly Structure

- n-type Monocrystalline Single-glass Module
- Adhesive Layer
- Heat Collection Layer
- Insulation Layer

Certification



IEC 61215(2021)/IEC 61730(2023)/IEC 61701/IEC 62716
 ISO 9001:2015: Quality Management System
 ISO 14001:2015: Environment Management System
 ISO 45001:2018: Occupational health and safety
 IEC 62941:2019: Quality system for PV module manufacturing



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