

RLM6-144HP Series

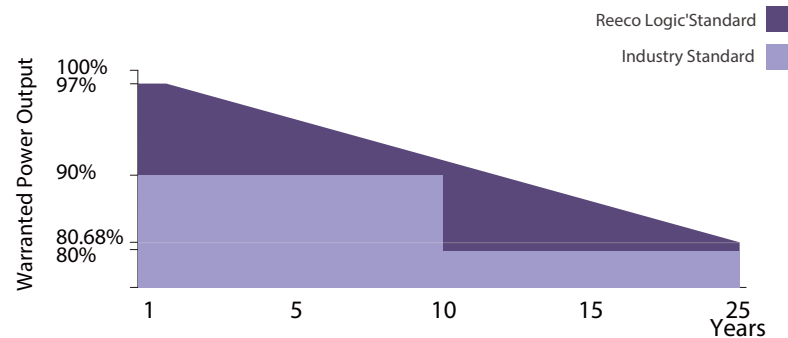
Reeco Logic solar 9BB HALF-CELL Monocrystalline PV Module

430W | 435W | 440W | 445W | 450W | 455W

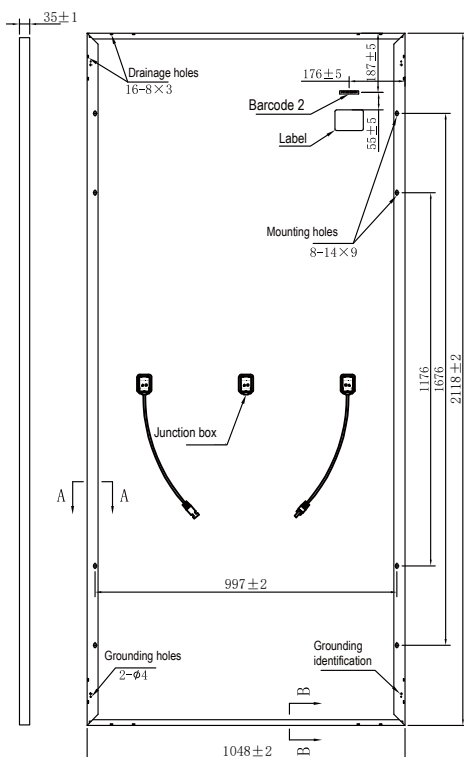
Made with selected materials and components to grant quality, duration, efficiency and through outputs, the RLM6-144HP monocrystalline modules by Reeco Logic solar(power output 430up to 455Wp, represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy whilst reducing your energy bill.

Reeco Logic solar's RLM6-144HP Monocrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.

10 years product warranty/25 years output warranty



DIMENSION OF THE PV MODULE (mm)



9 Busbar Solar Cell

No power loss thanks to improved temperature co-efficient caused by 9 busbar solar cell



Anti PID

Limited power degradation of RLM6-144HP module caused by PID effect is guaranteed under strict testing condition for mass production



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Better Weak Illumination Response

Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings



Customerization—Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost

RLM6-144HP Series

Reeco Logic solar 9BB HALF-CELL
monocrystalline PV Module

ELECTRICAL PROPERTIES | STC*

Module Type	RLM6-144HP -430/M	RLM6-144HP -435/M	RLM6-144HP -440/M	RLM6-144HP -445/M	RLM6-144HP -450/M	RLM6-144HP -455/M
Nominal Power Watt Pmax(W)	430	435	440	445	450	455
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	42.6	42.8	43.0	43.2	44.4	44.6
Maximum Power Current Imp(A)	10.10	10.17	10.24	10.31	10.50	10.57
Open Circuit Voltage Voc(V)	51.0	51.2	51.4	51.6	51.8	52.0
Short Circuit Current Isc(A)	10.55	10.60	10.66	10.72	10.82	10.88
Module Efficiency (%)	19.37	19.60	19.82	20.05	20.5	20.7

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	319.6	323.4	327.2	330.9	336.1	339.8
Maximum Power Voltage Vmpp(V)	39.8	40.0	40.2	40.5	40.8	41.1
Maximum Power Current Imp(A)	8.04	8.09	8.14	8.17	8.21	8.25
Open Circuit Voltage Voc(V)	47.4	47.6	47.8	47.9	48.1	47.3
Short Circuit Current Isc(A)	8.52	8.56	8.61	8.65	8.70	8.75

*NMOT(Nominal module operating temperature):Irradiance 800W/m², Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.37%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/wind)	5400 Pa / 2400 Pa

MECHANICAL DATA

Solar cells	166×83 mm
Cells orientation	144 (6×24)
Module dimension	2118×1048×35 mm
Weight	25 kg
Glass	High transparency,low iron,tempered
	Glass 3.2 mm (AR-coating)
Junction box	IP 68 , 3 diodes
Cables	4 mm ² ,350 mm
Connectors	MC4-compatible

COMPREHENSIVE CERTIFICATES



Clean Energy Council



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PACKAGING INFORMATION

Packing Type	20' GP	40' HQ
Piece/Box	30	
Piece/Container	150	660

I-V CURVES OF THE PV MODULE

