

DQ144M-182

505-580 Watt

HIGH EFF MONO BIFACIAL MODULE



Positive power tolerance of 0~+3%

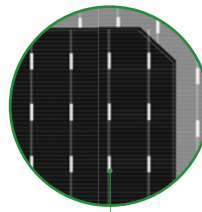
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

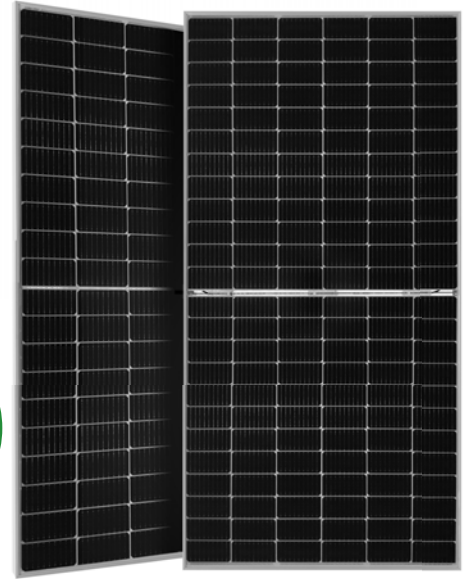
ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Bifacial Technology



## Features



### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



### Longer Life-time Power Yield

0.45% annual power degradation and 30 year linear power warranty.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

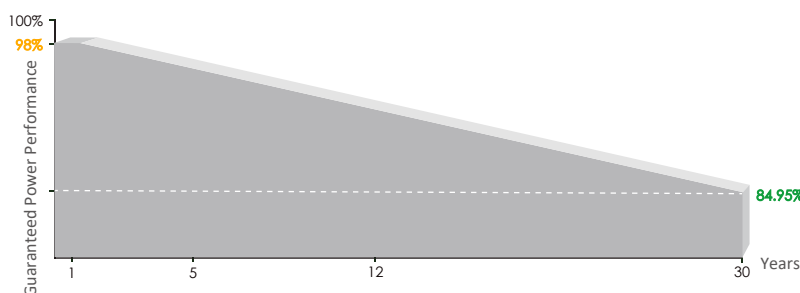


### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



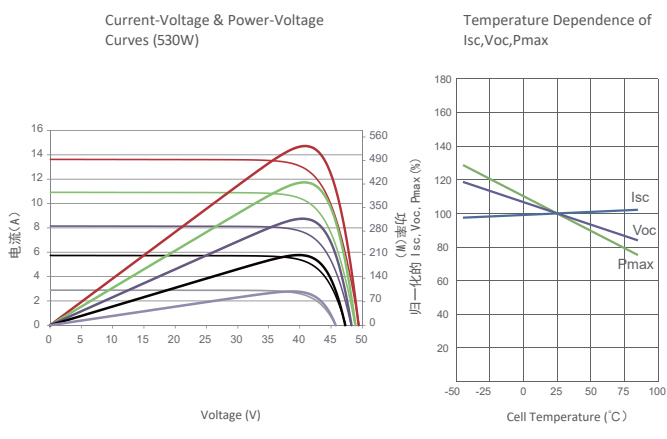
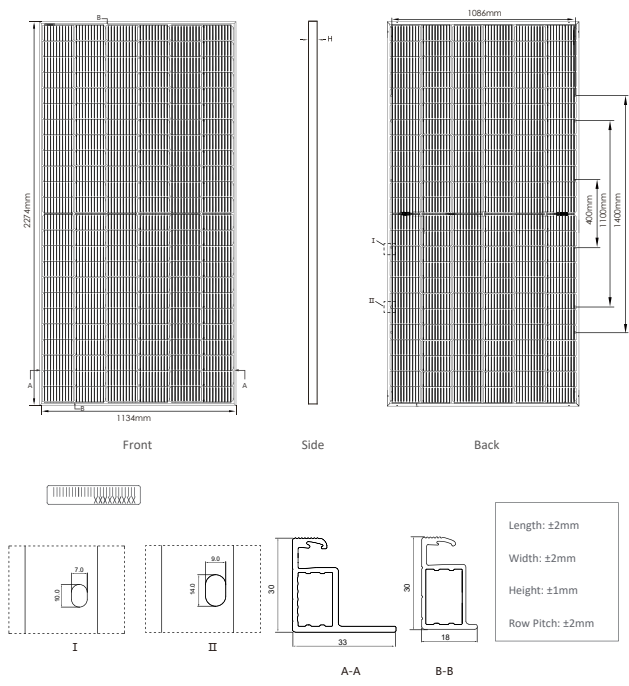
## LINEAR PERFORMANCE WARRANTY



12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years



Mechanical Characteristics	
Cell Type	P type Mono-crystalline
No. of cells	144 (6x24)
Dimensions	2274x1134x35mm
Weight	28.8kg
Front Glass	Anti-Reflection Coating Glass
Backsheet	Transmittance 85%
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

### Packaging Configuration

31pcs/pallets, 20pallets/40'HQ.Container, 620pcs/40'HQ.Container

Module Type	DQ144M-510H		DQ144M-515H		DQ144M-520H		DQ144M-525H		DQ144M-530H	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Maximum Power (Pmax)	510Wp	560Wp	515Wp	565Wp	520Wp	570Wp	525Wp	575Wp	530Wp	580Wp
Maximum Power Voltage (Vmp)	40.28V	40.58V	40.40V	40.68V	40.50V	40.80V	40.61V	40.87V	40.71V	40.97V
Maximum Power Current (Imp)	12.66A	13.78A	12.75A	13.88A	12.84A	13.97A	12.93A	14.07A	13.02A	14.17A
Open-circuit Voltage (Voc)	49.04V	49.67V	49.12V	49.77V	49.20V	49.90V	49.27V	49.33V	49.35V	49.96V
Short-circuit Current (Isc)	13.40A	14.56A	13.47A	14.65A	13.54A	14.73A	13.64A	14.84A	13.71A	14.92A
Module Efficiency STC (%)	19.78%		19.97%		20.17%		20.36%		20.55%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	70±5%									

TUV Power measurement tolerance +/-3%

- \*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM=1.5
- NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

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