## HALF-CELL BIFACIAL DOUBLE GLASS





# POWER RANGE 395-415W MAXIMUM EFFICIENCY 21.25% OUTPUT GUARANTEE

HALF-CELL Bifacial Double Glass Monocrystalline Module: DGJMB-08 Series





IEC 61215 / IEC 61730

## **PRODUCT FEATURES**





**Positive tolerance 0-5W** 





Adapt to harsh outdoor environment







Front side loading 5400Pa Rear side loading 2400Pa

### **DR. GROB ENERGY GMBH**

Dr. Grob is a German technology company that specializes in the production of solar modules and solar components. The company places great emphasis on continuously developing and optimizing its products to meet the needs of its customers. The team at Dr. Grob Energy GmbH has more than 10 years of experience in the development and production of PV modules and is proud to offer its own PV modules. These modules have been specifically designed to ensure high performance and efficiency. In addition, all Dr. Grob modules are TÜV-certified. They meet strict quality standards and comply with the highest requirements of the industry. The safety and reliability of Dr. Grob's products are thus confirmed.

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#### DIMENSIONS



Front View

**Back View** 

#### **ELECTRICAL CHARACTERISTICS I STC\***

#### **MECHANICAL DATA**

Module Type	DGJMB395-08	DGJMB400-08	DGJMB405-08	DGJMB410-08	DGJMB415-08	Cell	Mono PERC(182*91mm)	
Nominal Power Watt Pmax(W)*	395	400	405	410	415	No. of Cell	108(6x18)	
Open Circuit Voltage(Voc)(V)	36.90	37.10	37.30	37.50	37.70	Dimension	1722 X1134 X30mm	
Maximum Power Voltage(Vmp)(V)	30.70	30.90	31.10	31.30	31.50	Weight	24.5kg±3%	
Short Circuit Current(A)	13.62	13.70	13.78	13.86	13.94	Glass	2.0mm+2.0mm	
Maximum Power Current(Imp)(A)	12.87	12.95	13.03	13.10	13.18	Frame	Anodized aluminum alloy	
Module Efficiency(%)	20.23	20.48	20.74	21.00	21.25	Junction box	IP68,3 diodes	
Power Output Tolerance Pmax			0-+5W			Cables	4mm <sup>2</sup> ,1200mm(with Connector)	
	•	•	•			Connector	MC4-compatible	

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

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

\* Measuring tolerance: ±3%

#### **ELECTRICAL CHARACTERISTICS I NOCT\***

#### **TEMPERATURE CHARACTERISTICS**

ModuleType	DGJMB395-08	DGJMB400-08	DGJMB405-08	DGJMB410-08	DGJMB415-08	NOCT	45±2°C
Maximum Power(Pmax)(W)	295	299	303	306	310	Temperature Coefficient of Pmax	-0.350%/°C
Open Circuit Voltage(Voc)(V)	34.50	34.70	34.80	35.00	35.20	Temperature Coefficient ofVoc	-0.280%/°C
Maximum Power Voltage(Vmp)(V)	28.50	28.70	28.90	29.10	29.30	Temperature Coefficient of Isc	+0.048%/°C
Short Circuit Current(A)	11.00	11.06	11.13	11.19	11.26		
Maximum Power Current(Imp)(A)	10.34	10.41	10.47	10.54	10.60		

\*NOCT: Irradiance 800W/m2,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

#### ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 410W FRONT)

#### **WORKING CONDITIONS**

Power Gain	er Gain Peak Power(Pmax)(W) MPP Voltage(Vmp)(V)		MPP Current(Imp)(A) Open Circuit Voltage(Voc)(V)		Short Circuit Current(lsc)(A)	Maximum System Voltage	1500V DC
5%	430	31.30	13.75	37.50	14.55	Operational Temperature	-40°C~+85°C
10%	451	31.30	14.41	37.50	15.25	Maximum series fuse	30A
20%	492	31.30	15.72	37.50	16.63	Maximum static loading(Front)	5400Pa(112lb/ft <sup>2</sup> )
25%	512	31.30	16.37	37.50	17.32	Maximum static loading(Back)	2400Pa(50lb/ft <sup>2</sup> )

\*Refer.Bifacial Factor: 70±10%

#### PACKING

Dimensions(L × W × H)	1727 × 1110 x1255mm		
Piece/Box	36		
Container 40'HC	936		

#### I-V & P-V CURVES OF PV MODULES(400W)



#### LINEAR PERFORMANCE WARRANTY



12 years product material & workmanship30 years linear performance warranty

PACKING