

# DGJMB-44 Series

HALF-CELL Bifacial Double Glass Monocrystalline Module

**520-560W**

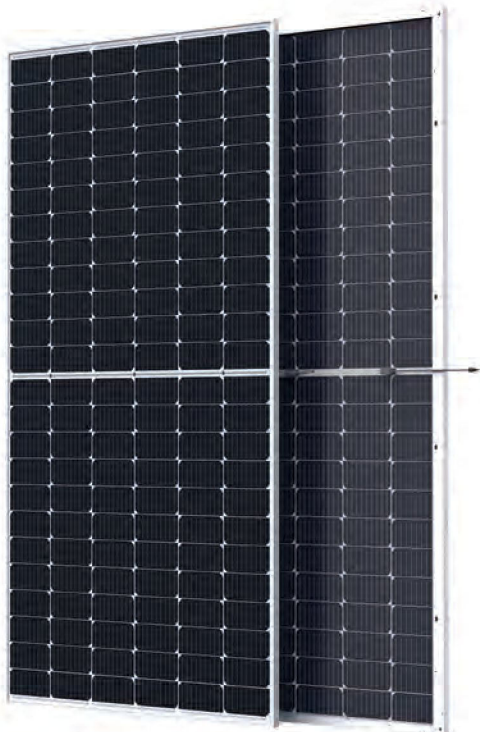
POWER RANGE

**21.7%**

MAXIMUM EFFICIENCY

**30 YEARS**

POWER OUTPUT GUARANTEE



Up to 30% additional power gain from rear side



Reduced Hot Spot Loss



Higher Power Output



Positive tolerance 0~5W



Anti PID



Lower LCOE

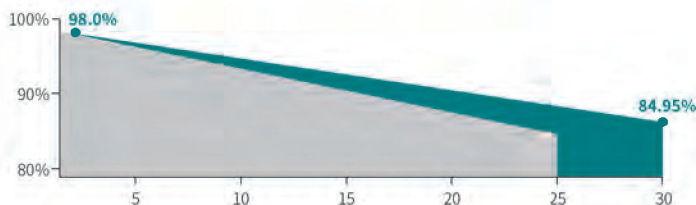


Adapt To Harsh Outdoor Environment



Front side loading 5400 Pa  
Rear side loading 2400 Pa

## Linear Performance Warranty

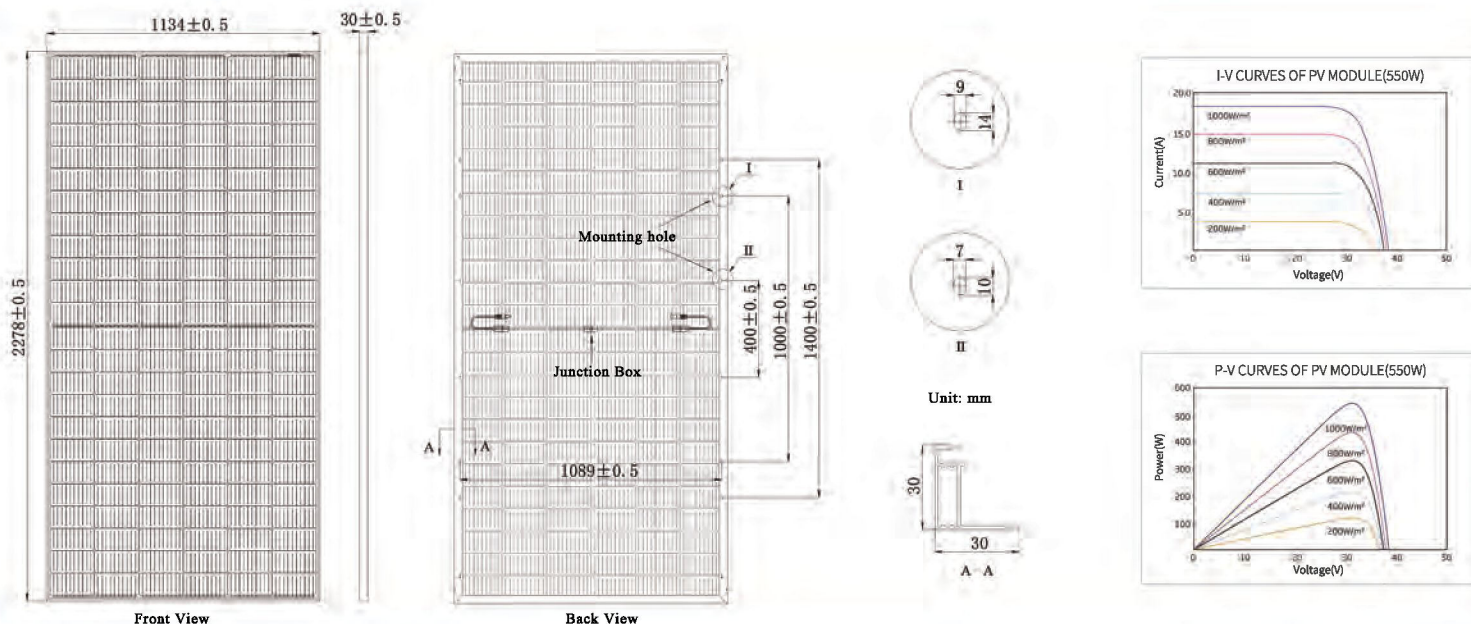


**12 Years Product Material & Workmanship**  
**30 Years Linear Performance Warranty**



IEC 61215 / IEC 61730

## DIMENSIONS



## ELECTRICAL CHARACTERISTICS | STC\*

Module Type	DGJMB520-44	DGJMB525-44	DGJMB530-44	DGJMB535-44	DGJMB540-44	DGJMB545-44	DGJMB550-44	DGJMB555-44	DGJMB560-44	Cell	Mono PERC(182*91mm)
Nominal Power Watt Pmax(W)*	520	525	530	535	540	545	550	555	560	No. of Cell	144(6x24)
Open Circuit Voltage(Voc)(V)	49.00	49.14	49.31	49.44	49.61	49.76	49.91	50.16	50.31	Dimension	2278 x 1134 x 30mm
Maximum Power Voltage(Vmp)(V)	40.98	41.16	41.32	41.46	41.65	41.81	41.97	42.13	42.29	Weight	31.6kg±3%
Short Circuit Current(A)	13.58	13.64	13.73	13.78	13.85	13.92	14.02	14.06	14.13	Glass	2.0mm+2.0mm
Maximum Power Current(Impp)(A)	12.69	12.75	12.83	12.90	12.97	13.04	13.10	13.18	13.25	Frame	Anodized aluminum alloy
Module Efficiency(%)	20.1	20.3	20.5	20.7	20.9	21.1	21.3	21.5	21.7	Junction box	IP68, 3 diodes
Power Output Tolerance Pmax	0~+5W									Cables	4mm², 300mm(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%

## MECHANICAL DATA

## ELECTRICAL CHARACTERISTICS | NOCT\*

Module Type	DGJMB520-44	DGJMB525-44	DGJMB530-44	DGJMB535-44	DGJMB540-44	DGJMB545-44	DGJMB550-44	DGJMB555-44	DGJMB560-44	NOCT	45 ± 2°C
Maximum Power(Pmax)(W)	393.5	397.3	401.1	404.8	408.6	412.4	416.2	420.0	423.8	Temperature Coefficient of Pmax	-0.350%/°C
Open Circuit Voltage(Voc)(V)	45.74	45.77	45.95	46.21	46.48	46.74	47.01	47.28	47.54	Temperature Coefficient of Voc	-0.280%/°C
Maximum Power Voltage(Vmp)(V)	37.56	37.78	38.00	38.23	38.45	38.67	38.90	39.12	39.35	Temperature Coefficient of Isc	+0.048%/°C
Short Circuit Current(A)	10.88	10.92	10.96	11.00	11.04	11.08	11.12	11.16	11.20		
Maximum Power Current(Impp)(A)	10.47	10.51	10.54	10.58	10.62	10.66	10.70	10.74	10.78		

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

## TEMPERATURE RATINGS

## ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 550W FRONT)

Power Gain	Peak Power(Pmax)(W)	MPP Voltage(Vmp)(V)	MPP Current(Impp)(A)	Open Circuit Voltage(Voc)(V)	Short Circuit Current(Isc)(A)	Maximum System Voltage	1500V DC
5%	578	41.97	13.76	49.91	14.72	Operational Temperature	-40°C~+85°C
10%	605	41.97	14.41	49.91	15.42	Maximum series fuse	30A
20%	660	41.97	15.72	49.91	16.82	Maximum static loading(Front)	5400Pa(112lb/ft²)
25%	688	41.97	16.38	49.91	17.53	Maximum static loading(Back)	2400Pa(50lb/ft²)

\*Refer. Bifacial Factor: 70 ± 10%

## WORKING CONDITIONS

## PACKAGING

Dimensions(L×W×H)	2321×1150×1270mm
Piece/Box	31
Container 40'HC	620

Due to continuous innovation, research and development and product improvement, Dr. GROB Energy GmbH reserves the right to adjust the information in this technical parameter document at any time without prior notice.