

## DEEP BLUE 3.0 Pro

### Mono

### 425W MBB Half-cell Module JAM54S30 400-425/GR Series

#### Introduction

Assembled with 11BB PERC cells and gapless ribbon connection technology, the modules can offer higher output power with improved module efficiency, the reduction of cells gaps brings outstanding module appearance. The half-cell configuration makes less shading effect, lower risk of hot spot, as well as more reliable and stable power generation.



Higher output power



Lower LCOE



Less shading and lower resistive loss

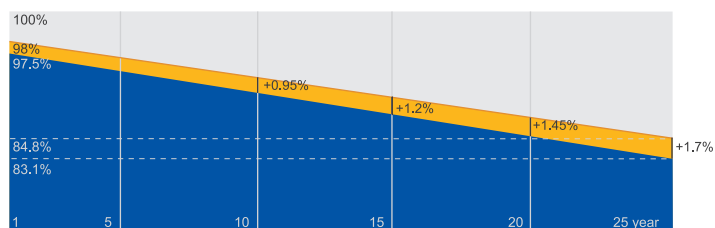


Better mechanical loading tolerance

#### Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation  
Over 25 years



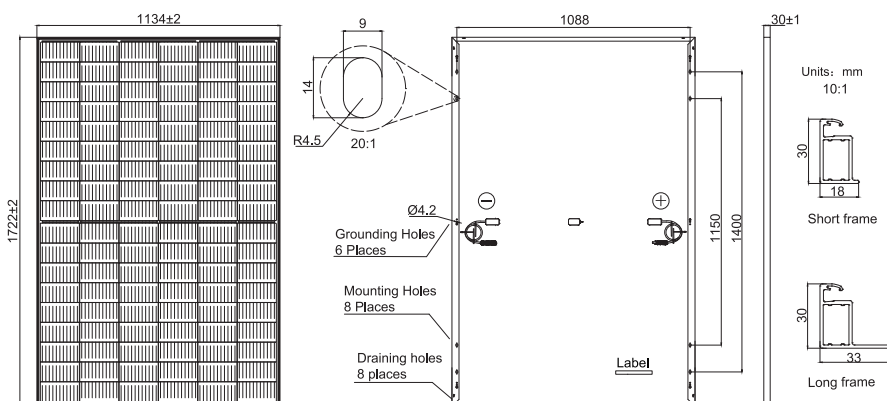
■ New linear power warranty ■ Standard module linear power warranty

#### Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



## MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

## SPECIFICATIONS

Cell	Mono
Weight	19.5kg
Dimensions	1722±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC) , 12 AWG(UL)
No. of cells	108(6x18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-); Landscape: 1100mm(+)/1100mm(-)
Front Glass	2.8mm
Packaging Configuration	36pcs/Pallet 936pcs/40HQ Container

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM54S30 -400/GR	JAM54S30 -405/GR	JAM54S30 -410/GR	JAM54S30 -415/GR	JAM54S30 -420/GR	JAM54S30 -425/GR
Rated Maximum Power(P <sub>max</sub> ) [W]	400	405	410	415	420	425
Open Circuit Voltage(V <sub>oc</sub> ) [V]	37.07	37.23	37.32	37.45	37.58	37.72
Maximum Power Voltage(V <sub>mp</sub> ) [V]	31.01	31.21	31.45	31.61	31.80	31.98
Short Circuit Current(I <sub>sc</sub> ) [A]	13.79	13.87	13.95	14.02	14.10	14.18
Maximum Power Current(I <sub>mp</sub> ) [A]	12.90	12.98	13.04	13.13	13.21	13.29
Module Efficiency [%]	20.5	20.7	21.0	21.3	21.5	21.8
Power Tolerance	0~+5W					
Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )	-0.275%/°C					
Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> )	-0.350%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

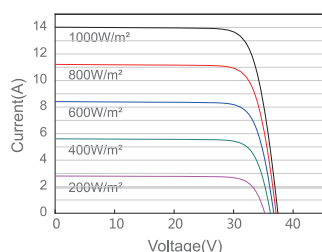
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL PARAMETERS AT NOCT

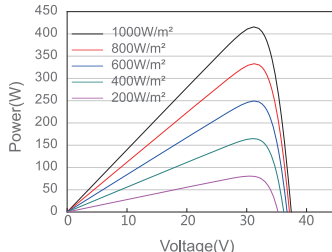
TYPE	JAM54S30 -400/GR	JAM54S30 -405/GR	JAM54S30 -410/GR	JAM54S30 -415/GR	JAM54S30 -420/GR	JAM54S30 -425/GR	OPERATING CONDITIONS
Rated Max Power(P <sub>max</sub> ) [W]	302	306	310	314	318	322	Maximum System Voltage 1000V/1500V DC
Open Circuit Voltage(V <sub>oc</sub> ) [V]	34.88	35.12	35.23	35.37	35.50	35.64	Operating Temperature -40°C~+85°C
Max Power Voltage(V <sub>mp</sub> ) [V]	29.26	29.47	29.72	29.89	30.09	30.26	Maximum Series Fuse Rating 25A
Short Circuit Current(I <sub>sc</sub> ) [A]	11.03	11.10	11.16	11.22	11.29	11.36	Maximum Static Load, Front Maximum Static Load, Back 5400Pa(112lb/ft <sup>2</sup> ) 2400Pa(50lb/ft <sup>2</sup> )
Max Power Current(I <sub>mp</sub> ) [A]	10.32	10.38	10.43	10.50	10.57	10.64	NOCT 45±2°C
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G						Safety Class Class II
							Fire Performance UL Type 1

## CHARACTERISTICS

Current-Voltage Curve JAM54S30-415/GR



Power-Voltage Curve JAM54S30-415/GR



Current-Voltage Curve JAM54S30-415/GR

