







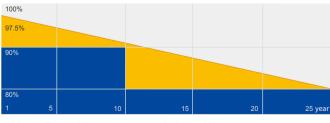
Anti-PID



Highly reliable due to strict quality control

# **Superior Warranty**

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



Linear Power Warranty

Industry Warranty

## **Comprehensive Certificates**

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules Guidelines for increased confidence in PV module design qualification and type approval













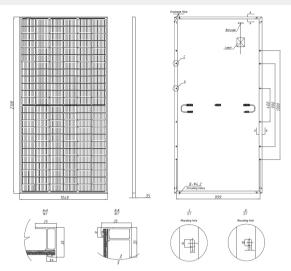








#### MECHANICAL DIAGRAMS



#### **SPECIFICATIONS**

Cell	PERC
Weight	24.5kg
Dimensions	2108×1048×35mm
Cable Cross Section Size	4mm², 300mm
No. of cells	144(2x(6x12))
Junction Box	IP68, 3 diodes
Connector	1500V, MC4
Packaging Configuration	30 Per Pallet
Container	660pcs /40' HQ

Remark: customized frame color and cable length available upon request

#### **ELECTRICAL PARAMETERS AT STC**

LLLCTRICAL FARAMETERS AT STO	•				
TYPE	BR-M435W	BR-M440W	BR-M445W	BR-M450W	BR-M455W
Rated Maximum Power(Pmax) [W]	435	440	445	450	455
Open Circuit Voltage(Voc) [V]	48.7	48.9	49.2	49.5	49.7
Maximum Power Voltage(Vmp) [V]	40.5	40.8	41.1	41.4	41.7
Short Circuit Current(Isc) [A]	11.24	11.30	11.36	11.42	11.48
Maximum Power Current(Imp) [A]	10.74	10.78	10.83	10.87	10.91
Module Efficiency [%]	19.63	19.92	20.14	20.37	20.60
Power Tolerance			0~+5W		
Temperature Coefficient of Isc( $\alpha$ _Isc)			+0.06%/°C		
Temperature Coefficient of $Voc(\beta_Voc)$			-0.30%/°C		
Temperature Coefficient of $Pmax(\gamma_Pmp)$	-0.38%/°C				
STC	Irradiance 1000W/m², 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**

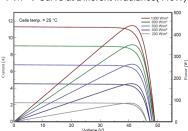
TYPE	BR-M435	BR-M440	BR-M445	BR-M450	BR-M455
Rated Max Power(Pmax) [W]	326	330	334	337	341
Open Circuit Voltage(Voc) [V]	46.1	46.3	46.6	46.9	47.1
Max Power Voltage(Vmp) [V]	37.7	38.0	38.3	38.6	38.9
Short Circuit Current(Isc) [A]	9.08	9.13	9.18	9.23	9.28
Max Power Current(Imp) [A]	8.64	8.67	8.71	8.74	8.78
NOCT	IOCT Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G				

#### **OPERATING CONDITIONS**

Maximum System Voltage	1500V DC(IEC)				
Operating Temperature	-40°C~+85°C				
Maximum Series Fuse	20A				
Maximum Static Load,Front	5400Pa				
Maximum Static Load,Back	2400Pa				
NOCT	44±2°C				
Application Class	Class A				

#### **CHARACTERISTICS**

I-V/P-V Curve at Different Irradiance(440W)



#### I-V Curve at Different Working Temperature(440W)

