

## Introduction

This time-tested legacy module series has been proven to be one of the powerful and most reliable products offered by BR Solar and the most popular choice by PV system installers and customers around world.



Low cost



11 busbar solar cell design



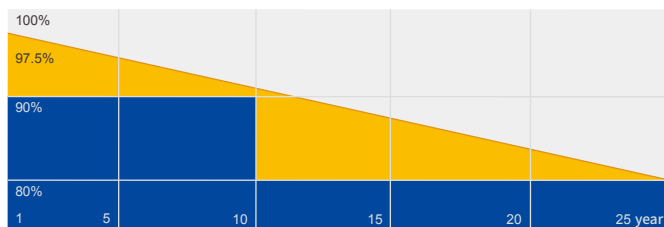
Anti-PID



Highly reliable due to strict quality control

## Superior Warranty

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



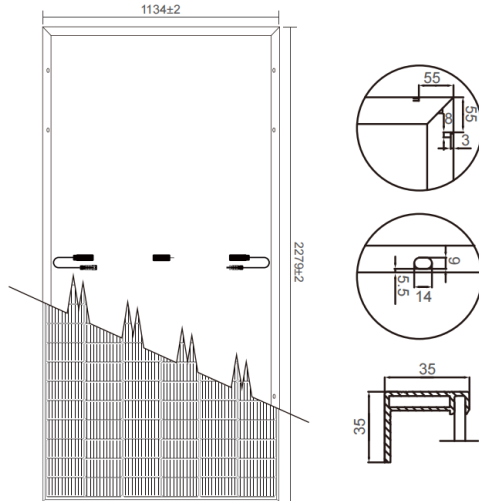
■ Linear Power Warranty ■ Industry Warranty

## 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



Remark: customized frame color and cable length available upon request

## SPECIFICATIONS

Cell	PERC
Weight	28.6kg
Dimensions	2279×1134×35mm
Cable Cross Section Size	4mm <sup>2</sup> , 300mm
No. of cells	144(2x(6x12))
Junction Box	IP68, 3 diodes
Connector	1500V, MC4
Packaging Configuration	30 Per Pallet
Container	600pcs /40' HQ

## ELECTRICAL PARAMETERS AT STC

TYPE	BR-M530W	BR-M535W	BR-M540W	BR-M545W	BR-M550W
Rated Maximum Power(Pmax) [W]	530	535	540	545	550
Open Circuit Voltage(Voc) [V]	49.3	49.5	49.6	49.8	49.9
Maximum Power Voltage(Vmp) [V]	41.3	41.5	41.6	41.8	42.0
Short Circuit Current(Isc) [A]	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(Imp) [A]	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.5	20.7	20.9	21.1	21.3
Power Tolerance	0~+5W				
Temperature Coefficient of Isc( $\alpha_{Isc}$ )	+0.05%/°C				
Temperature Coefficient of Voc( $\beta_{Voc}$ )	-0.28%/°C				
Temperature Coefficient of Pmax( $\gamma_{Pmp}$ )	-0.35%/°C				
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G				

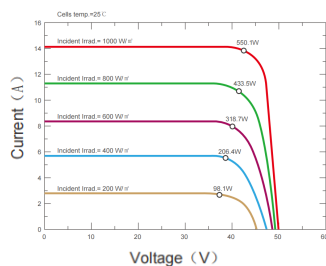
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL PARAMETERS AT NOCT

TYPE	BR-M530	BR-M535	BR-M540	BR-M545	BR-M550	OPERATING CONDITIONS	
Rated Max Power(Pmax) [W]	401	405	408	412	416	Maximum System Voltage	1500VDC(IEC)
Open Circuit Voltage(Voc) [V]	46.2	46.3	46.4	46.6	46.7	Operating Temperature	-40°C~+85°C
Max Power Voltage(Vmp) [V]	38.6	38.8	39.0	39.2	39.4	Maximum Series Fuse	25A
Short Circuit Current(Isc) [A]	11.01	11.05	11.09	11.13	11.17	Maximum Static Load,Front	5400Pa
Max Power Current(Imp) [A]	10.39	10.43	10.47	10.51	10.55	Maximum Static Load,Back	2400Pa
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G					NOCT	45±2°C
						Application Class	Class A

## CHARACTERISTICS

I-V Curve at Different Irradiance(550W)



P-V Curve at Different Irradiance(550W)

