

DEEP BLUE 3.0

Mono

665W MBB Half-cell Module
RZ- 665 HM-132 **Series**

Introduction

Assembled with 12BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss

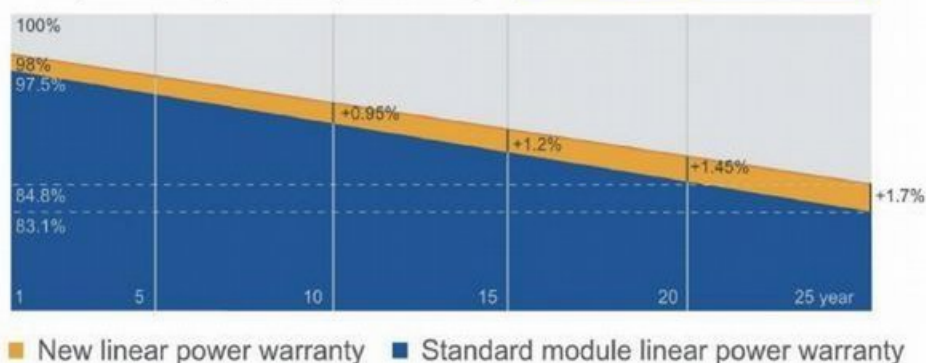


Better mechanical loading tolerance

Superior Warranty

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

0.55% Annual Degradation
Over 25 years

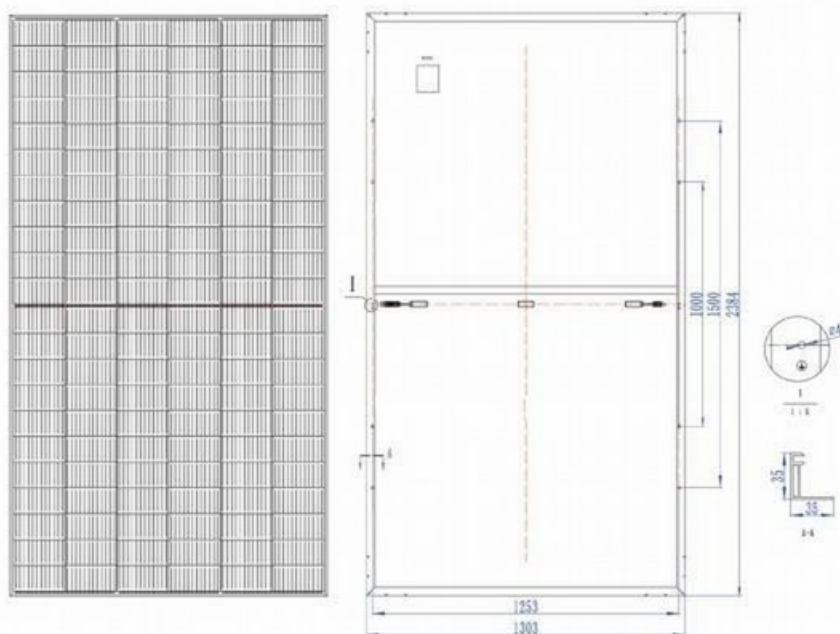


Comprehensive Certificates

- 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 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	Mono
Weight	34.5kg±3%
Dimensions	2384x1303x35mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of Cells	132(6×22)
Junction Box	IP68, 3 diodes
Connector	MC4(1000V) MC4(1500V)
Cable Length (Including Connector)	Portrait: 300mm Landscape: 1200mm(+)/1200mm(-)
Packaging Configuration	31pcs/Pallet, 527pcs/40ft Container

ELECTRICAL PARAMETERS AT STC

TYPE	RZ-630HM -132/Single	RZ-635HM -132/Single	RZ-640HM -132/Single	RZ-645HM -132/Single	RZ-650HM -132/Single	RZ-655HM -132/Single	RZ-660HM -132/Single	RZ-665HM -132/Single
Rated Maximum Power(P _{max}) [W]	630	635	640	645	650	655	660	665
Open Circuit Voltage(V _{oc}) [V]	44.2	44.6	44.8	45.0	45.2	45.4	45.6	45.8
Maximum Power Voltage(V _{mp}) [V]	37.0	37.2	37.4	37.6	37.8	38.0	38.2	38.4
Short Circuit Current(I _{sc}) [A]	18.1	18.14	18.18	18.22	18.26	18.30	18.34	18.38
Maximum Power Current(I _{mp}) [A]	17.03	17.07	17.11	17.16	17.20	17.24	17.28	17.32
Module Efficiency [%]	20.3	20.4	20.6	20.8	20.9	21.1	21.3	21.4
Power Tolerance	0~+5W							
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C							
Temperature Coefficient of V _{oc} (β _{Voc})	-0.275%/°C							
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°C							
STC	Irradiance 1000W/m ² , 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	RZ-630HM -132/Single	RZ-635HM -132/Single	RZ-640HM -132/Single	RZ-645HM -132/Single	RZ-650HM -132/Single
Rated Max Power(P _{max}) [W]	479	483	486	490	494
Open Circuit Voltage(V _{oc}) [V]	42.4	42.6	42.8	43.0	43.2
Max Power Voltage(V _{mp}) [V]	35.1	35.3	35.5	35.7	35.9
Short Circuit Current(I _{sc}) [A]	14.65	14.68	14.71	14.74	14.78
Max Power Current(I _{mp}) [A]	13.63	13.67	13.70	13.74	13.77
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G				

OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40 °C ~+85 °C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front*	5400Pa(112lb/ft ²)
Maximum Static Load, Back*	2400Pa(50lb/ft ²)
NOCT	45±2 °C
Safety Class	Class II
Fire Performance	UL Type 1

CHARACTERISTICS

