

RHM182M144H 530 – 550W

ELECTRICAL PARAMETERS@STC

Max. Power Output Pmax (W)	530	535	540	545	550
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	41.74	41.84	41.96	42.06	42.16
Max. Power Current Imp (A)	12.70	12.79	12.87	12.96	13.05
Open Circuit Voltage Voc (V)	49.40	49.50	49.60	49.70	49.80
Short Circuit Current Isc (A)	13.55	13.64	13.74	13.84	13.94
Module Efficiency (%)	20.51	20.70	20.89	21.09	21.28

STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

ELECTRICAL PARAMETERS@NMOT

Max. Power Output Pmax (W)	391	395	398	402	405
Max. Power Voltage Vmp (V)	38.01	38.11	38.18	38.26	38.33
Max. Power Current Imp (A)	10.28	10.35	10.43	10.51	10.59
Open Circuit Voltage Voc (V)	45.62	45.71	45.80	45.89	45.98
Short Circuit Current Isc (A)	10.94	11.22	11.10	11.18	11.26

Nominal Module Operating Temperature (NMOT), Irradiance of 800W/m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.35%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Isc	+0.048%/°C

MECHANICAL PARAMETERS

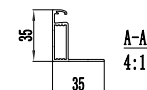
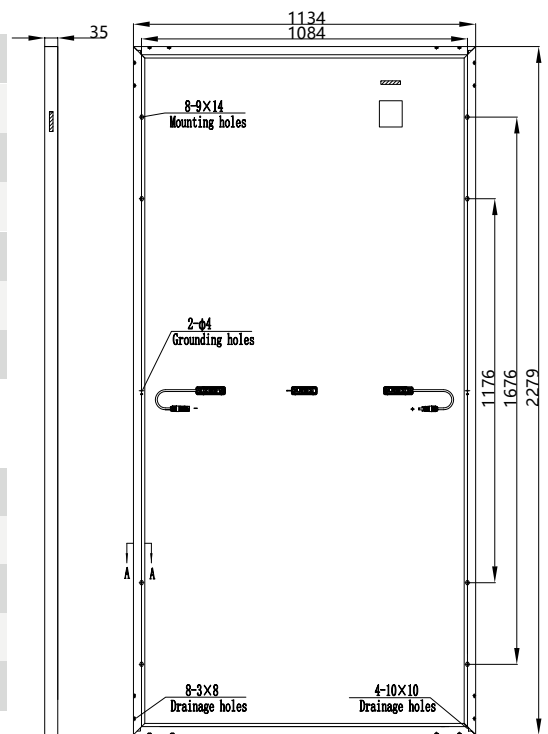
Cell Type	Mono 182×91 mm
Number of Cells	144pcs (2×(6×12))
Dimensions (L*W*H)	2279×1134×35mm
Weight	28.6 kg
Frame	Anodized Aluminum
Junction Box	IP68, 3 bypass diodes
Cable, Length	4mm ² , 300mm

OPERATING CONDITION

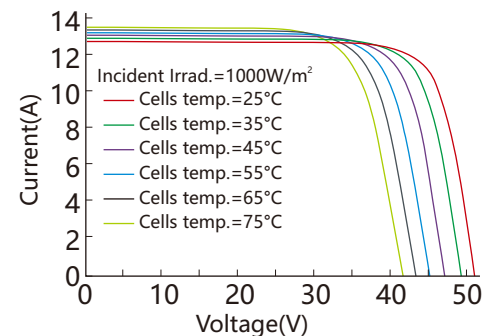
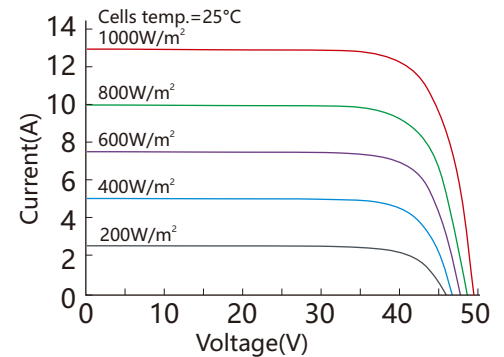
Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max. Wind Load / Snow Load(pa)	2400/5400
Max. Over Current(A)	25
Application Class	ClassA
Fire Rating	ClassC
NMOT(°C)	45± 2

PACKAGE INFORMATION

Per Pallet	30 pcs
20'ft/40'HQ	150(30×5)/600(60×10) pcs



Current-Voltage Curve



*Power measurement tolerance: ±3%

*No notice when product specifications change

DISCLAIMER: Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation on the Product Development and R&D activities. Ruihuang solar reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module's data.