

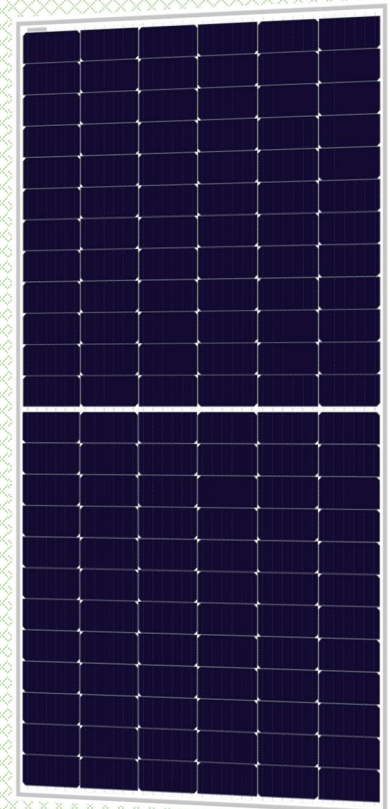


Mono-crystalline 166(6BB) Solar Module

RD430M6H~RD450M6H (144Cells Series)

430Wp~450Wp Output Power

Max system voltage 1500V standard



Key Features

- Outstanding Performance in weak-light conditions
- Excellent temperature coefficient
- 0~+5W positive tolerance guarantee reliable power output
- Shortened current collection, path, low series resistance
- More uniform stress distribution, higher anti-crack ability
- Excellent anti-PID module design
- Certified to withstand high wind loads(3600pa) and snow loads(8000pa) of the latest standard test of module mechanical load
- Salt mist and ammonia corrosion resistant

Quality & Environment Certification System

ISO 9001:2015 Quality management systems



ISO 14001:2015 Environment management systems



OHSAS 18001:2007 Occupational health and safety management systems



IEC61215

IEC61730

UL1703

IEC61701

IEC62716

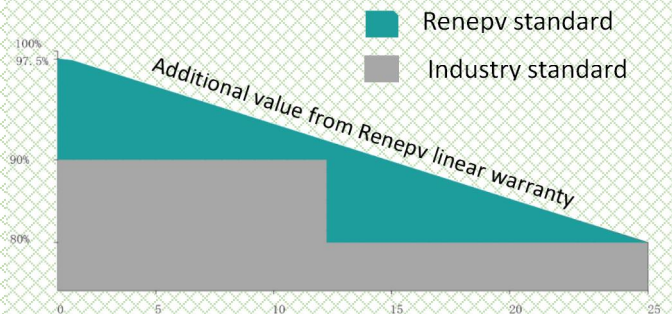
Linear Warranty For Module

12

12-year materials and workmanship Warranty

25

25-year linear performance Warranty



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Edition 2020



Mono-crystalline 166(6BB) Solar Module

Electrical Data (STC)

Module Type	RD430M6H~RD450M6H				
Power output(W)	430	435	440	445	450
Module efficiency(%)	19.40	19.62	19.85	20.08	20.30
Voltage at Pmax(V)	39.93	40.02	40.16	40.42	40.65
Current at Pmax(A)	10.76	10.87	10.96	11.01	11.07
Open circuit voltage(V)	48.95	49.04	49.16	49.42	49.65
Short circuit current(A)	11.18	11.29	11.38	11.43	11.49

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 5% at 200W/m² according to EN 60904-1.

Electrical Data (NOCT)

Module Type	RD430M6H~RD450M6H				
Power output(W)	323.4	327.1	330.9	334.7	338.4
Voltage at Pmax(V)	36.47	36.55	36.68	36.92	37.12
Current at Pmax(A)	8.88	8.95	9.02	9.06	9.12
Open circuit voltage(V)	44.71	44.79	44.91	45.13	45.34
Short circuit current(A)	9.04	9.13	9.21	9.28	9.33

NOCT: open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind

Mechanical Data

Cell (quantity)	MONO166×83 144pcs(6×12×2)
Sealing material	EVA
Back sheet	White sheet
Front Cover (material / thickness)	low-iron tempered glass / 3.2mm
Frame material	anodized aluminum alloy
Junction box (protection degree)	≥ IP67 with bypass-diode
Cable (length / cross sectional area)	900MM-Section4.0mm ² /TUV
Plug connector(type/protection degree)	MC4 / IP67
Fire Safety Classification (IEC 61730)	Class C

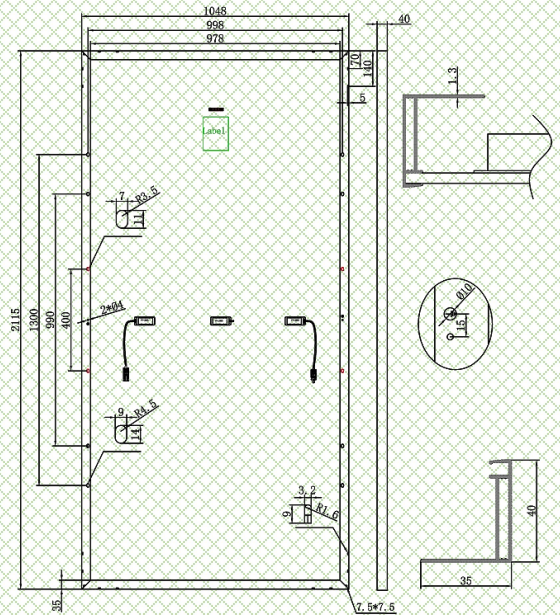
Working Conditions & Temperature

Nominal operating cell temperature	NOCT	44°C±2°C
Temperature coefficient of P _{max}	δ[%/°C]	-0.385
Temperature coefficient of V _{OC}	β[%/°C]	-0.304
Temperature coefficient of I _{SC}	α[%/°C]	0.046
Maximum system voltage (IEC)	VDC	1500
Maximum series fuse rating	A	20
Operating & Storage temperature	°C	-40~+85

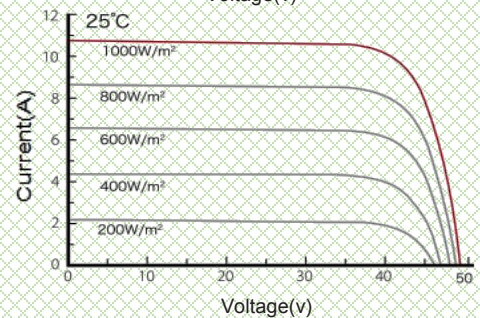
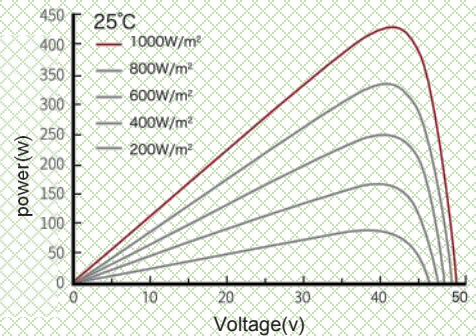
Dimensions of PV Module(mm)

Module Dimension	2115×1048×40 mm
Weight	24.5kg

Unit:mm



IV-Curves



Packing

packing unit	27pcs/box
1*40'HQ	22Pallets/594pcs