

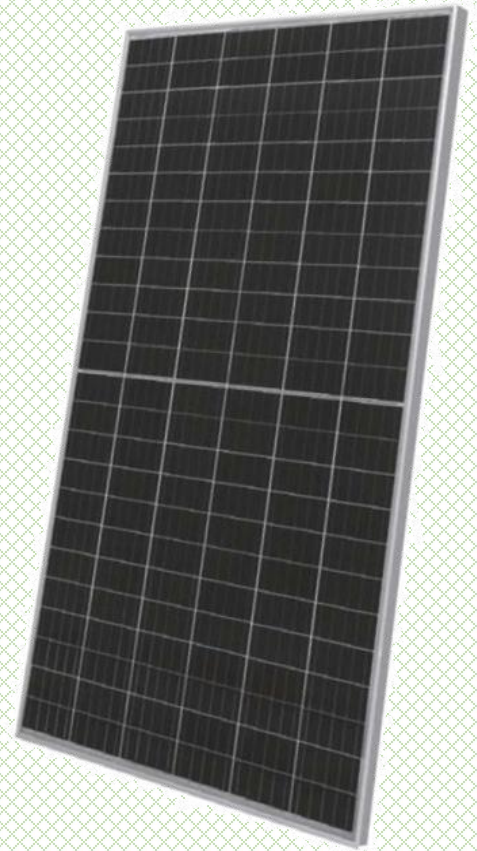


Mono-crystalline 158.75(5BB) Solar Module

RD400M3H~RD420M3H (144Cells Series)

400Wp~420Wp 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

Linear Warranty For Module

- 12** 12-year materials and workmanship Warranty
- 25** 25-year linear performance Warranty

Quality & Environment Certification System

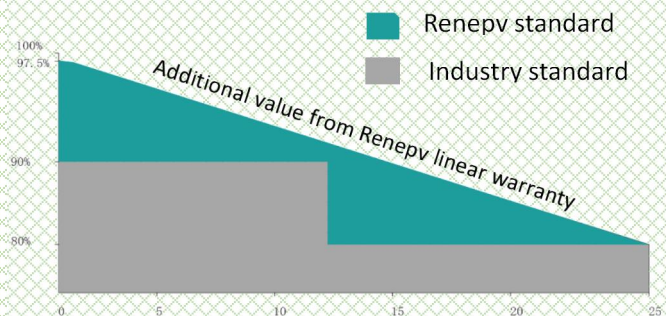
ISO 9001:2015 Quality management systems



ISO 14001:2015 Environment management systems



OHSAS 18001:2007 Occupational health and safety management systems



IEC61215

IEC61730

UL1703

IEC61701

IEC62716

NINGBO RENELED NEW ENERGY CO.,LTD

Add:NO.35 jintong road,binhai industrial park,xiangshan,ningbo city,china

Tell: +86-574-65786319

Fax: +86-574-65786317

Email: info@renepv.com

Website: www.renepv.com



Edition 2020



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Electrical Data (STC)

Module Type	RD400M3H~RD420M3H				
Power output(W)	400	405	410	415	420
Module efficiency(%)	19.88	20.13	20.38	20.62	20.87
Voltage at Pmax(V)	40.22	40.39	40.52	40.66	40.87
Current at Pmax(A)	9.95	10.03	10.12	10.21	10.28
Open circuit voltage(V)	49.12	49.33	49.49	49.66	49.82
Short circuit current(A)	10.37	10.45	10.54	10.63	10.70

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	RD400M3H~RD420M3H				
Power output(W)	296	299.7	303.4	307.1	310.8
Voltage at Pmax(V)	36.74	36.89	37.01	37.14	37.32
Current at Pmax(A)	8.05	8.12	8.20	8.27	8.33
Open circuit voltage(V)	45.08	45.15	45.26	45.35	45.50
Short circuit current(A)	8.24	8.30	8.38	8.48	8.56

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

Mechanical Data

Cell (quantity)	Mono158.75×79.3 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)	2*1000MM-Section4.0mm ² /TUV
Plug connector(type/protection degree)	MC4 / IP67
Fire Safety Classification (IEC 61730)	Class C

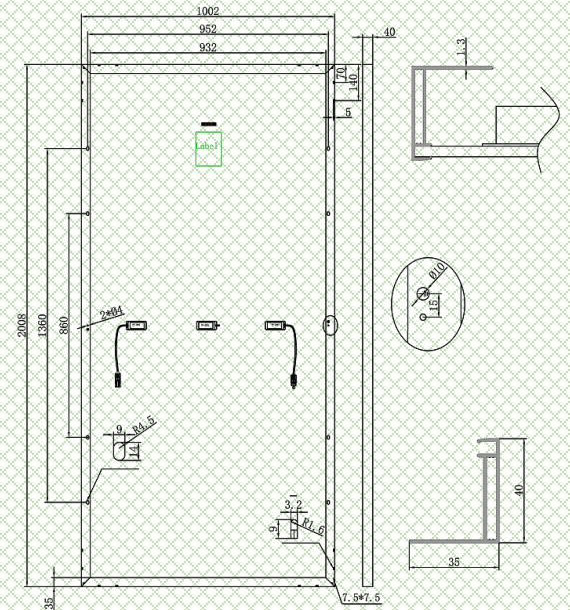
Working Conditions & Temperature

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

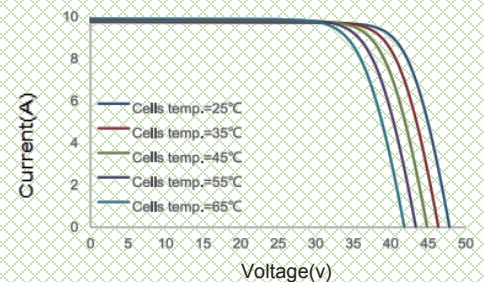
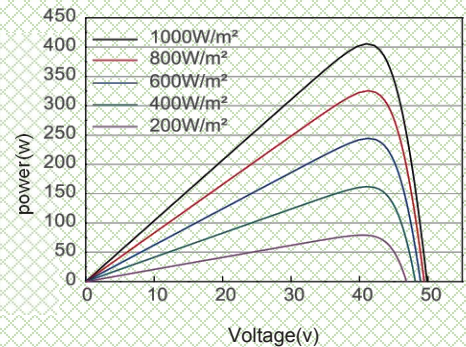
Dimensions of PV Module(mm)

Module Dimension	2008×1002×40 mm
Weight	23.5kg

Unit:mm



IV-Curves



Packing

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