

RDxxxM6 72 片高效单晶组件系列

RDxxxM6 72-cell Mono High Efficiency Module Series

单晶 6 主栅电池片

Mono 6BB Cell

420/425/430/435/440W 功率输出

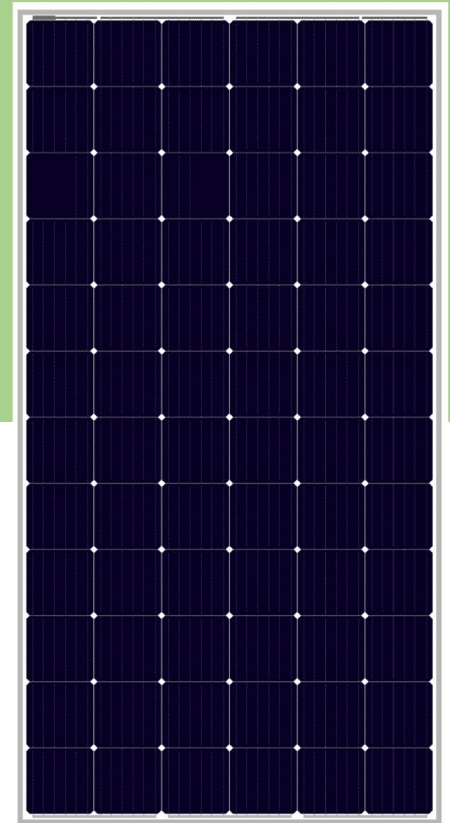
RD420M6~RD440M6 Output Power

最大系统电压 1500VDC

Max system voltage 1500V standard



瑞德能源
RENELED NEW ENERGY



产品特性/Key Features

- 优异的弱光效应，提升发电时间
Outstanding Performance in weak-light conditions
- 低温度系数，高温环境下功率损失减小
Excellent temperature coefficient
- 0~+5W 正公差确保可靠的功率输出
0~+5W positive tolerance guarantee reliable power output
- 采用 5 主栅电池，缩短电流采集路径，更低的串联电阻
5BB Cell shortened current collection, path, low series resistance
- 优异的抗 PID 组件设计，通过盐雾和氨气腐蚀测试
Excellent anti-PID module design, Salt mist and ammonia corrosion resistant
- 通过风载（3600Pa）和雪载（8000Pa）组件机械载荷最新测试认证
Certified to withstand high wind loads(3600pa) and snow loads(8000pa) of the latest standard test of module mechanical load

质量&环境体系认证 Quality & Environment Certification System

ISO9001: 2015 质量管理体系
ISO 9001:2015 Quality management systems

ISO 14001 环境管理体系
ISO 14001 Environment management systems

OHSAS 18001 国际职业健康和安全体系
OHSAS 18001 Occupational health and safety management systems



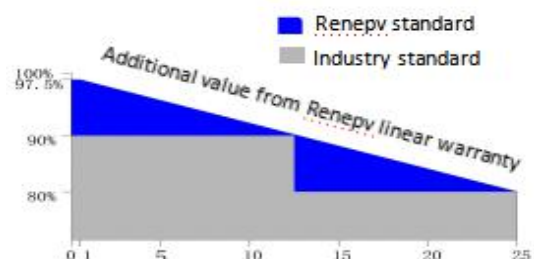
组件线性质保 Linear Warranty For Module

12

12 年产品材质和工艺质保
12-year materials and workmanship Warranty

25

25 年线性功率质保
25-year linear performance Warranty





RDxxxM6-72 420/425/430/435/440W

电性能参数 Electrical Data (STC)

Module Type	RD420M6~RD440M6				
Power output(W)	420	425	430	435	440
Module efficiency(%)	19.38	19.61	19.84	20.07	20.30
Voltage at Pmax(V)	39.42	39.56	39.78	39.96	40.12
Current at Pmax(A)	10.65	10.74	10.81	10.89	10.97
Open circuit voltage(V)	47.70	47.87	48.13	48.35	48.55
Short circuit current(A)	11.09	11.19	11.26	11.34	11.42

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

电性能参数 Electrical Data (NOCT)

Module Type	RD420M6~RD440M6				
Power output(W)	312.2	315.9	319.6	323.3	327.1
Voltage at Pmax(V)	36.00	36.13	36.33	36.50	36.64
Current at Pmax(A)	8.67	8.74	8.80	8.86	8.93
Open circuit voltage(V)	43.56	43.72	43.96	44.16	44.34
Short circuit current(A)	9.03	9.10	9.16	9.23	9.29

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

机械参数 Mechanical Data

Cell (quantity)	Mono166 72pcs(6×12)
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)	1200MM-Section4.0mm ² /TUV
Plug connector(type/protection degree)	MC4 / IP67
Fire Safety Classification (IEC 61730)	Class C

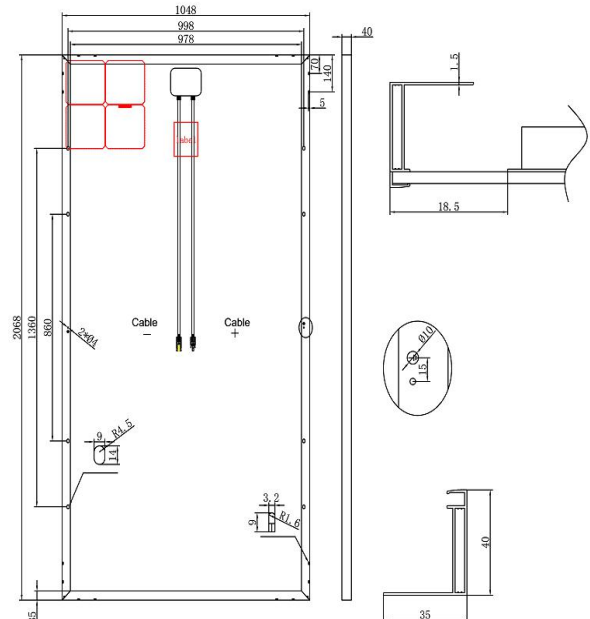
工作参数&温度系数 Working Conditions & Temperature

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

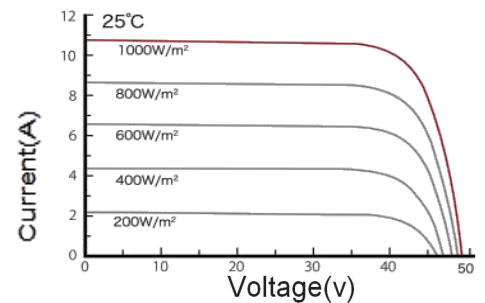
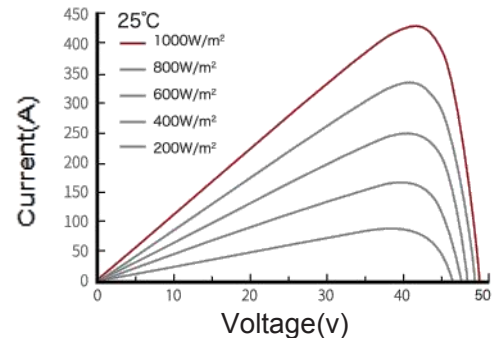
外形尺寸 Assembly Dimensions

Module Dimension	2068×1048×40 mm
Weight	24.0kg

Unit:MM



I-V 曲线 IV-Curves



包装信息 Packing

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