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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Ningbo Reneled New Energy Co., Ltd**

**RD50TU-18MD**

**RD50TU-18MD**

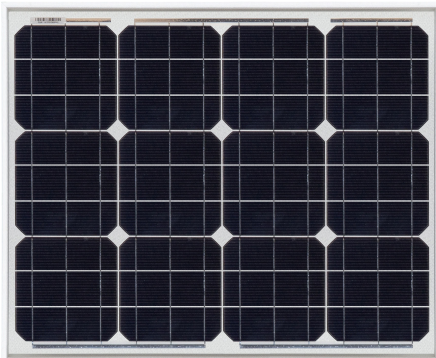
Also available on the web at  
[EnergyPal.com/ningbo-reneled-new-energy-co-ltd-solar-panels/rd50tu-18md](http://EnergyPal.com/ningbo-reneled-new-energy-co-ltd-solar-panels/rd50tu-18md)



IGNITE THE POWER OF NATURE

# Monocrystalline Module --small size 50Watt

## Model (RD50TU-18MD) Specifications



### Electrical Data

Maximum Power(W)	50W
Optimum Power Voltage(Vmp)	18.57V
Optimum Operating Current(Imp)	2.69A
Open Circuit Voltage(Voc)	22.64V
Short Circuit Current(Isc)	2.88A
Cell Efficiency	17.96%
Module Efficiency	13.73%
Tolerance Wattage	0~+3%
NOCT	47°C +/-2°C

### Benefits

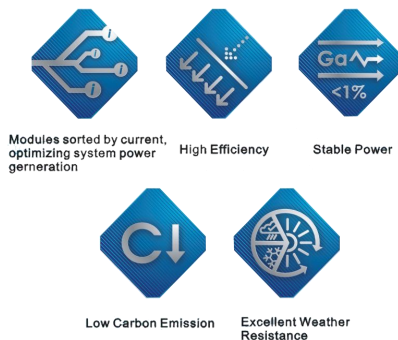
☐ High efficiency solar cells with high transmission and textured glass are delivering high efficiency for modules;

☐ Bypass diode minimizes the power drop caused by shade;

☐ Tempered glass, EVA resin, and weatherproof film, plus aluminum frame for extended outdoor use;

☐ Modules independently tested to ensure conformance with certification and regulatory standards;

☐ Manufacturing facility certified to ISO 9001 quality management system standards.



### Applications

- ☐ On-grid residential roof-tops
- ☐ On-grid commercial/industrial roof-tops
- ☐ Solar power stations
- ☐ Other on-grid applications

### Temperature Coefficients

Temperature Coefficients of Isc(%)/°C	+0.04
Temperature Coefficients of Voc(%)/°C	-0.38
Temperature Coefficients of Pm(%)/°C	-0.47
Temperature Coefficients of Im(%)/°C	+0.04
Temperature Coefficients of Vm(%)/°C	-0.38



IGNITE THE POWER OF NATURE

## Monocrystalline Module --small size 50Watt

### Components & Mechanical

Solar Cell	156*51(52.5)	Mono
Number of Cell(pcs)	4*9	
Size of Module(mm)	545*668*28	
Front Glass Thikness(mm)	3.2	
Surface Maximum Load Capacity	2400-5400Pa	
Allowable Hail Load	23m/s ,7.53g	
Weight Per Piece(KG)	4.3	
Frame(Material Corners,etc.)	28#	
Temperature Range	-40°C to +85°C	
FF (%)	70-76%	
Standard Test Conditions	AM1.5 1000W/m <sup>2</sup> 25°C	

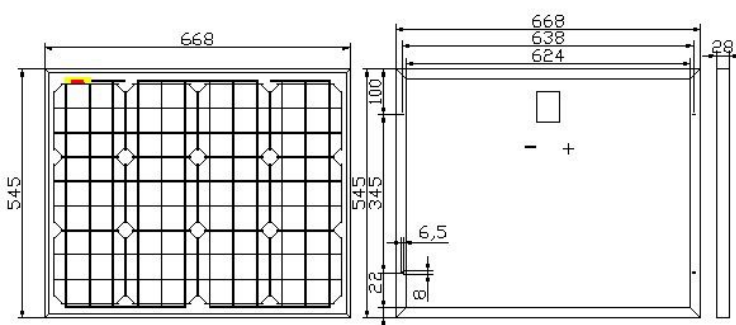
### Packing

Packing	Wooden Box
Pieces per container	60pcs/Pallets

### Project Picture



### Engineering Drawings



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