



RICH SOLAR 50W Polycrystalline Solar Module

Peak Power - Pmax	50W
Model Name	RS-P50
Maximum Power Voltage - Vmp (V)	17.5
Maximum Power Current - Imp (A)	2.86
Open Circuit Voltage - Voc (V)	21.7
Short Circuit Current - Isc (A)	3.18
Dimension (mm)	630 x 670 x 30
Net Weight (kg)	5.4
Module Efficiency - η_m	11.8%
Power Tolerance	$\pm 5\%$
Cell Type	156 x 62mm cut high efficiency polycrystalline silicon solar cell
Number of Cells	36pcs (4 x 9)
Glass	High transmission, low iron, tempered glass 3.2mm
Frame	Anodized aluminum alloy
Junction Box	IP65, 1000 VDC, TUV certified, with ultra reliable bypass diodes and MC4 waterproof connectors
Number of Bypass Diodes	1 ~ 2pcs
Cable Length	900mm
Temperature Coefficient of Pmax	- 0.45%/°C
Temperature Coefficient of Voc	- 0.35%/°C
Temperature Coefficient of Isc	0.05%/°C
Maximum System Voltage - Vmax	1000 VDC
Maximum Series Fuse	10A
Operating Temperature	-40°C ~ +85°C
Nominal Operating Cell Temperature	45 $\pm$ 2%/°C
Surface Maximum Load Capacity	60m/s (200kg/sq.m)
Allowable Hail Load	Steel ball falls down from 1M height



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Container Loading Capacity

1024pcs/20ft container

Note: All electrical parameters are rated at standard test conditions - STC (Air Mass AM1.5, Irradiance 1000W/m^2 , Cell Temperature 25°C)

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Specifications included in this datasheet are subject to change without notice.

Rich Solar Technology Co., Ltd.

Qiubin Industrial Zone, Jinhua, Zhejiang, China

T +86 (579) 8245 6333

F +86 (579) 8245 2333

E info@richsolar.com

www.richsolar.com