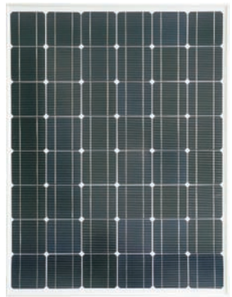
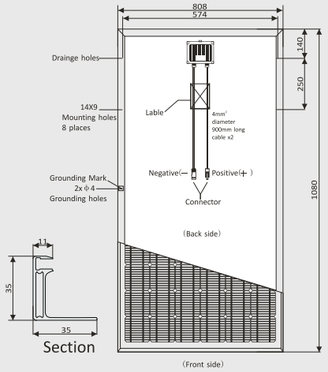
MONO CRYSTALLINE MODULE

48x5" /110W

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)	η
SYP110S	110W	+3%	23.30	4.71	29.20	4.88	>12.6%

Data sheet tested by BERGER module simulator at STC, STC: AM 1.5,600W/m², 25℃



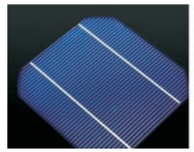


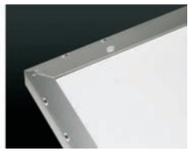
Specifications

- *Number of mono crystalline solar cell 48pcsx5"*
- *Aluminum frame, dimension 1080x808x35mm*
- *Maximum system voltage 600VDC*
- *Weight 10.3kg*
- *Voltage temperature coefficient Voc=−0.37%/℃*
- *Current temperature coefficient Isc=+ 0.02%/℃*
- *Power temperature coefficient Pm=−0.50%/℃*
- *Bypass diodes to reduce loss in partial shadow*
- *IP65*
- *Performance test data for each module*
- *Positive power tolerance up to + 3%*

25year Quality Warranty

-10 years with 100% product warranty
-12 years 90% rated power output
-25 years 80% rated power output





1. Risen's technology yields improvements to BSF structure and anti-reflective coating to increase conversion efficiency.

2. Unique design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces.

110Watt

MONO-CRYSTALLINE SOLAR PANEL

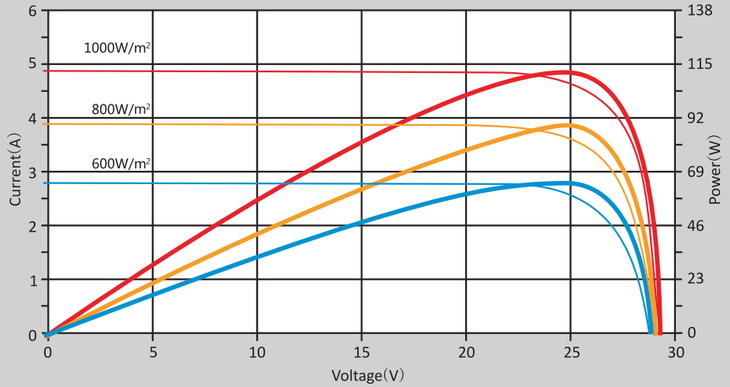
Features

High conversion efficiency based on innovative photovoltaic technologies
High reliability with guaranteed + 3%power output tolerance
Withstands high wind-pressure and snow load, and extreme temperature variations
Sturdy, clear-anodized aluminum frame with pre-drilled holes for quick installation
Advanced EVA encapsulation with triple-layer back sheet, meets the most stringent safety requirements for high-voltage operation
Pre-wired junction box equipped with connectors
Reliable bypass diodes to prevent overheating (hot spot effect) and to minimise power loss by shading.
Manufactured in ISO 9001:2000-certified Factory

Applications

On-grid applications	*Street and camp lights*	*Microwave/radio repeater stations*
Off-grid applications	*Traffic signals*	*Battery charging*
Solar home systems	*Medical facilities in*	*Water pumping*
Remote village lighting	*Remote areas*	*Water purification systems*

Current-Voltage&Power-Voltage Curve(110W)



Temperature Dependence of Isc,Voc,Pmax