



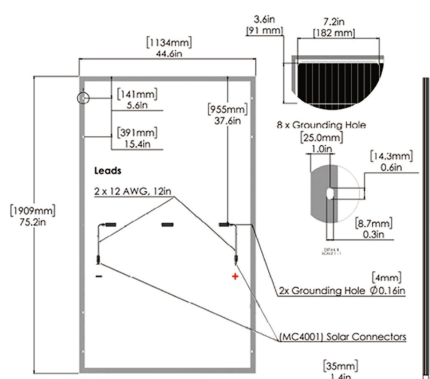
Key Features

- **Monocrystalline Panels** – Features substantial conversion efficiency and power output.
- **PERC Silicon Solar Cells** – Provides both cost savings and overall better power output performance.

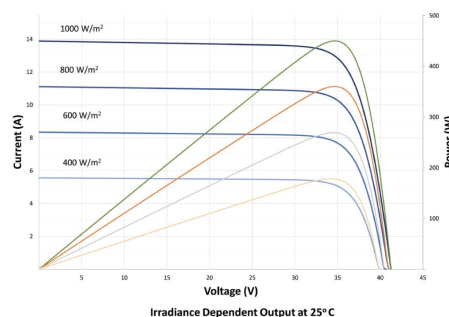
Additional Features:

- 100% EL testing on all modules
- Top ranked PTC (Production Tax Credit) rating
- **10 Year** – Material and workmanship warranty
- No hot spots, guaranteed
- Quick and inexpensive mounting
- **25 Year** – Power output warranty

Module Diagram



Electrical Performance



Renogy X is a subsidiary of RNG International, Inc.

Technical Specifications

	Renogy X 450W
Model Number	RSP450D-BB-120
	RSP450D-BB-108
Electrical Data	
Max. Power at STC	450W
Optimum Operating Voltage	34.67V
Optimum Operating Current	12.98A
Open Circuit Voltage (Voc)	34.67V
Short Circuit Current (Isc)	13.89A
Module Efficiency	20.8%
Max System Voltage	1500 VDC
Max Series Fuse Rating	25A
Mechanical Data	
Solar Cell Type	PERC Monocrystalline (7.2 x 3.6 in)
Number of Cells	120 (6 x 20), 60 cells in series
Dimensions	75.2" x 44.6" x 1.4"
Weight	52.7 lbs.
Front Glass	Tempered Glass 0.13"
Frame	Anodized Aluminum Alloy
Connector	Solar Connector
Fire Rating	Class C
Thermal Data	
Operating Temp. Range	-40F to 185F
Temp Coefficient of Pmax	-0.35 %/C
Temp Coefficient of Voc	-0.26 %/C
Temp Coefficient of Isc	0.05 %/C
Junction Box	
Protection Degree	IP65 / IP68
Diode	FMK4530T
Number of Diodes	3
Output Cables	12 AWG 300mm (11.8 in)
MC4001 – Solar Connectors	
Rated Current	35A
Maximum Voltage	1500 VDC
Maximum AWG Size	10 AWG
Operating Temperatures	-40°F to 185°F
IP Rating	IP65 / IP 68 (1m, 1h)
Certifications	
EN IEC61730	Yes
EN IEC61215	Yes
ISO 9001: QMS	Yes
ETL, UL61730	Yes

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