



## 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

**Key  
Partners**



# Technical Specifications

	Renogy X 450W	Renogy X 550W
Model Number	RSP450D-BK-120	RSP550D-144
<b>Electrical Data</b>		
Max. Power at STC	450W	550W
Optimum Operating Voltage	34.67V	41.97V
Optimum Operating Current	12.98A	13.11A
Open Circuit Voltage (Voc)	34.67V	49.95V
Short Circuit Current (Isc)	13.89A	14.05A
Module Efficiency	20.8%	21.3%
Max System Voltage	1500 VDC	1500 VDC
Max Series Fuse Rating	25A	25A
<b>Mechanical Data</b>		
Solar Cell Type	PERC Monocrystalline (7.2 x 3.6 in)	PERC Monocrystalline (7.2 x 3.6 in)
Number of Cells	120 (6 x 20), 60 cells in series	144 (6 x 24), 72 cells in series
Dimensions	75.2" x 44.6" x 1.4"	89.7" x 44.6" x 1.4"
Weight	52.7 lbs.	62.8 lbs.
Front Glass	Tempered Glass 0.13"	Tempered Glass 0.13"
Frame	Anodized Aluminum Alloy	Anodized Aluminum Alloy
Connector	Solar Connector	Solar Connector
Fire Rating	Class C	Class C
<b>Thermal Data</b>		
Operating Temp. Range	-40F to 185F	-40F to 185F
Temp Coefficient of Pmax	-0.35 %/C	-0.35 %/C
Temp Coefficient of Voc	-0.26 %/C	-0.26 %/C
Temp Coefficient of Isc	0.05 %/C	0.05 %/C
<b>Junction Box</b>		
Protection Degree	-40F to 185F	-40F to 185F
Diode	-0.35 %/C	-0.35 %/C
Number of Diodes	-0.26 %/C	-0.26 %/C
Output Cables	0.05 %/C	0.05 %/C
<b>MC4001 - Solar Connectors</b>		
Rated Current	35A	35A
Maximum Voltage	1500 VDC	1500 VDC
Maximum AWG Size	10 AWG	10 AWG
Operating Temperatures	-40°F to 185°F	-40°F to 185°F
IP Rating	IP65 / IP 68 (1m, 1h)	IP65 / IP 68 (1m, 1h)
<b>Certifications</b>		
EN IEC61730	Yes	Yes
EN IEC61215	Yes	Yes
ISO 9001: QMS	Yes	Yes
ETL, UL61730	Yes	Yes