

Description

ShadowFlux is engineered to minimize power loss under partial shading and obscured conditions, making it ideal for rooftops with limited space and complex lighting conditions.

Featuring N-type solar cells with up to 25% conversion efficiency and advanced cell-level bypass technology, ShadowFlux maintains more consistent output under partial shade. More stable and durable than standard solar panels, Shadowflux provides a long-term, dependable, and secure source of energy.

Key Features

ShadowFlux Anti-Shading Technology

Advanced cell-level bypass technology reduces power loss and prevents hot-spot formation under partial shading.

25% N-Type High Efficiency

N-Type solar cells with 16BB structure provide high conversion efficiency with reduced micro-crack risk and maintain stable output.

Compact and Lightweight

Smaller and lighter than conventional PERC panels, ShadowFlux fits space-constrained rooftop layouts.

IP67-Rated Environmental Protection

Sealed junction box and advanced encapsulation materials provide resistance to water, dust, snow, and rain in outdoor conditions.

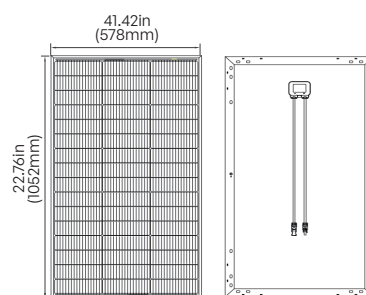
Designed for Long-Term Operation

Engineered for durability and supported by a 5-year materials warranty and 25-year performance guarantee.

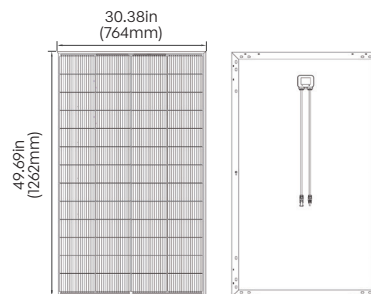


Module Diagram

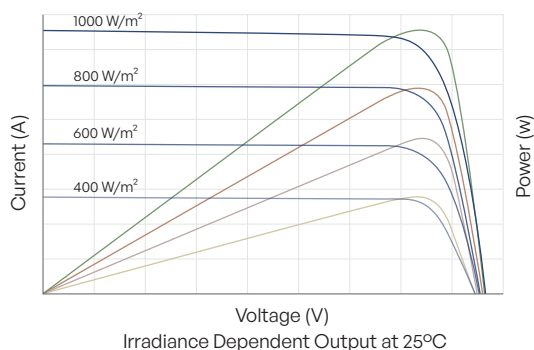
RSP120DC-ASR



RSP200DC-ASR



IV-Curve



Technical Specifications

Electrical Data

Model	RSP200DC-ASR	RSP120DC-ASR
Maximum Power at STC	200W	120W
Optimum Operating Voltage (Vmp)	31.3V	28.9V
Optimum Operating Current (Imp)	6.38A	4.21A
Open-Circuit Voltage (Voc)	36.5V	33.7V
Short-Circuit Current (Isc)	6.86A	4.57 A
Module Efficiency	20.70%	20.70%
Maximum System Voltage	1,000VDC	1,000VDC
Maximum Series Fuse Rating	15A	15A

Mechanical Data

Solar Cell Type	Mono N-Type	Mono N-Type
Number of Cells	52 (4 x 13)	48 (3 x 16)
Dimensions	49.69 x 30.08 x 1.18in / 1,262 x 764 x 30mm	41.42 x 22.76 x 1.18in / 1,052 x 578 x 30mm
Weight	23.83 lbs / 10.81kg	15.87 lbs / 6.81kg
Front Film	Tempered Glass	Tempered Glass
Connectors	Solar Connectors	Solar Connectors
Frame	Anodized Aluminium Alloy	Anodized Aluminium Alloy
Fire Performance	Type I	Type I
Certification	CE, UKCA, RCM	CE, UKCA, RCM
Power Output Warranty	25-Year	25-Year
Material and Workmanship Warranty	5-Year	5-Year

Thermal Characteristics

Operating Temp. Range	-40°F to 185°F / -40°C to 85°C	-40°F to 185°F / -40°C to 85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C	-0.25%/°C
Temperature Coefficient of Isc	0.05%/°C	0.05%/°C

MC4 Connectors

Maximum Voltage	1,000VDC	1,000VDC
Rated Current	30A	30A
Maximum AWG Size Range	12 AWG	12 AWG
IP Rating	IP68	IP68

Junction

IP Rating	IP67	IP67
Output Cables	14 AWG 23.6in / 600mm	14 AWG 23.6in / 600mm

Package Contents

Package Contents	1x Renogy ShadowFlux 200W Rigid Solar Panel	1x Renogy ShadowFlux 120W Rigid Solar Panel
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