

Description

Renogy Flex ShadowFlux is an N-Type TOPCon flexible solar panel designed for curved surfaces, mobile power setups, and space-limited Off-Grid installations. Its anti-shading design helps reduce power loss and lower hot-spot risk when part of the panel is shaded by trees, antennas, snow, or other common obstructions.

Built with up to 18BB A+ grade N-Type TOPCon cells, UV-resistant materials, IP68-rated protection, and up to 270° flexibility, Flex ShadowFlux is designed to fit RVs, boats, teardrop trailers, balconies, and other curved or compact surfaces where reliable solar output and easier installation matter.

Key Features

■ ShadowFlux™ Anti-Shading Technology

Helps keep solar output more stable when part of the panel is shaded. Advanced cell-level bypass technology with up to 30 bypass diodes helps reduce power loss and hot-spot risk in real-world conditions.

■ 25% N-Type High Efficiency

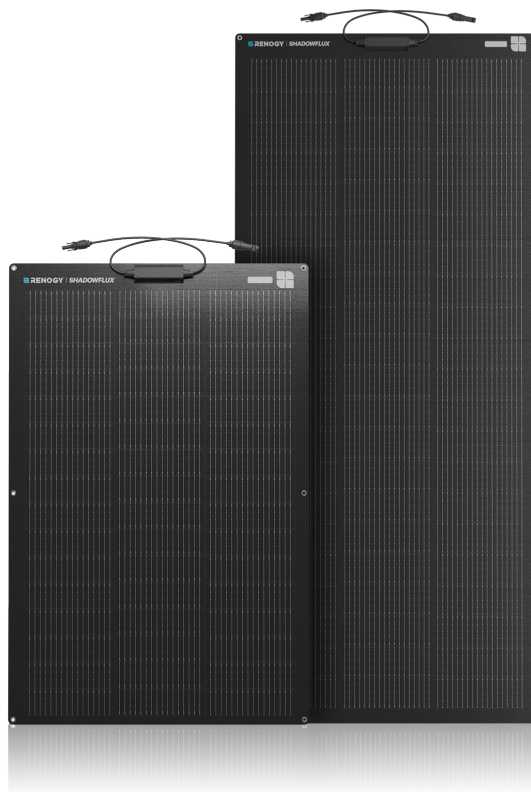
Up to 18BB A+ Grade N-Type TOPCon cells provide high conversation efficiency with reduced crack risk and lower degradation.

■ UV- and Crack-Resistant Materials

TPO material helps resist UV-related aging, while glass-fiber reinforcement helps prevent cracking from vibration, flexing, and movement.

■ 270° Flexibility for Curved Installs

Bends up to 270° to fit curved roofs, boat surfaces, teardrop trailers, and other space-limited installations.



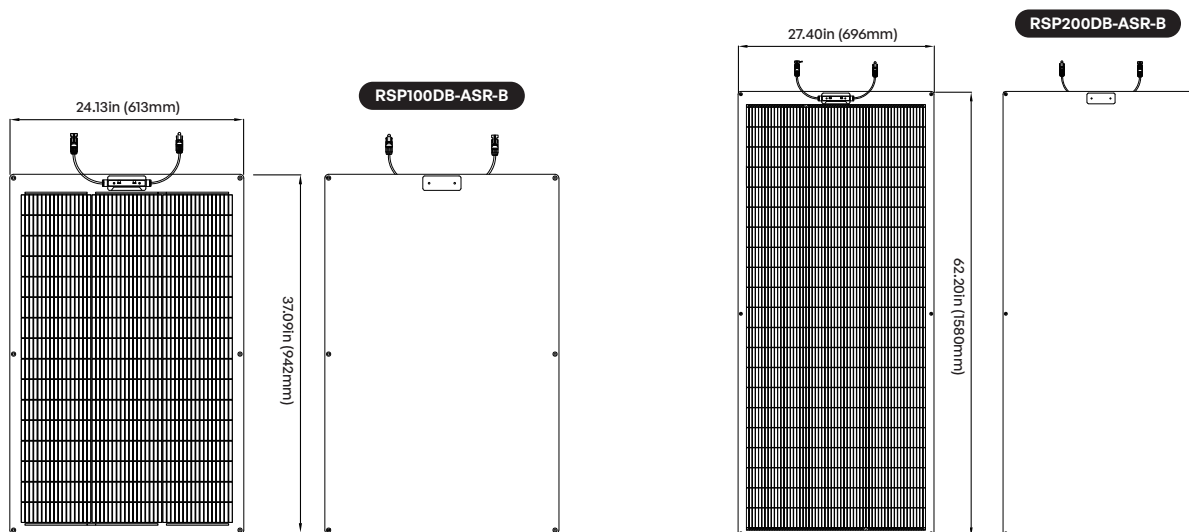
■ Ultra-Thin and Lightweight

As light as 4.2 lbs, easy for one person to carry and install while minimizing roof load and profile.

■ IP68-Rated Protection

Stands up to rain, snow, dust, and harsh outdoor conditions.

Module Diagram



Technical Specifications

Electrical Data

Model	RSP100DB-ASR-B	RSP200DB-ASR-B
Maximum Power at STC*	100W	200W
Optimum Operating Voltage (Vmp)	28.8V	37.8V
Optimum Operating Current (Imp)	3.48A	5.29A
Open-Circuit Voltage (Voc)	33.6V	44.1V
Short-Circuit Current (Isc)	3.66A	5.57A
Module Efficiency	0.18	0.18
Maximum System Voltage	600V	600V
Maximum Series Fuse Rating	10A	10A

Mechanical Data

Solar Cell Type	Mono N-Type	Mono N-Type
Number of Cells	48 (3 x 16)	63 (3 x 21)
Size (unfolded)	37.09 x 24.13 x 0.10in / 942 x 613 x 2.5mm	62.20 x 27.40 x 0.10in / 1580 x 696 x 2.5mm
Weight	4.19 lbs / 1.90kg	7.72 lbs / 3.50kg
Front Film	TPO	TPO
Connectors	Solar Connectors	Solar Connectors
Frame	None	None
Fire Performance	Type 1	Type 1

Thermal Characteristics

Operating Temp. Range	-40°C to 85°C / -40°F to 185°F	-40°C to 85°C / -40°F to 185°F
Nominal Operating Cell Temperature	25±2°C	25±2°C
Temperature Coefficient of Pmax	-0.30%/K	-0.33%/K
Temperature Coefficient of Voc	-0.25%/K	-0.27%/K
Temperature Coefficient of Isc	+0.045%/K	+0.045%/K

MC4 Connectors

Maximum Voltage	600VDC	600VDC
Rated Current	30A	30A
Maximum AWG Size Range	12AWG	12AWG
Temperature Range	- 40°C to 85°C / -40°F to 185°F	- 40°C to 85°C / -40°F to 185°F
IP Rating	IP68	IP68

Junction

IP Rating	IP68	IP68
Number of Diodes	2	2
Output Cables	12AWG 800MM / 31.5in	12AWG 1000MM / 39.37in
Power Output Warranty	3-Year	3-Year
Material and Workmanship Warranty	3-Year	3-Year
Certification	CE, UKCA, CA65, TSCA, RCM	CE, UKCA, CA65, TSCA, RCM
Package Contents	1 x 100W Shadowflux Flexible Solar Panel	1 x 200W Shadowflux Flexible Solar Panel