

Andalay™

A Whole New Look to Solar Power



Designed for Maximum Reliability and Systematic Installation

Solar systems must last decades in the harsh environment of your roof. To ensure these systems last, meticulous engineering design was applied to build the next generation in solar systems that eliminates exposure of weather sensitive components. Andalay is designed for primary assembly at our factory, not at your home like ordinary solar systems. The result is an integrated solar system that will provide decades of reliable solar power performance.

With “Good Looks” to Match Andalay’s Meticulous Design

In addition to Andalay providing a more reliable system that delivers decades of solar power performance, it also delivers a cleaner and more attractive look. With its slimmer panels, invisible electrical cabling and hidden mounting system, Andalay takes less room while blending into your roof like a skylight.

Andalay is an integrated solar power system

● Built-in Reliability & Safety

Built-in electrical and ground connectors can't loosen or be installed incorrectly.

Shorter wire lengths are less likely to fail by pinching or abrading.

70% fewer roof-assembled parts means a longer lasting system.

25% fewer roof attachment points means greater roof integrity.

Grounding process can't skip panels, connectors won't wear or corrode, for maximum long term safety.

● High Performance

Latest generation monocrystalline cell technology.

Output tolerance of just 3% means the promised power is delivered.

Lighter weight and less space between panels so more can fit on a roof.

Lower electrical resistance losses due to shorter wire lengths.

● Convenience and Safety for Customer and Installer

Fully compliant with UL 1703 solar test and NEC safety requirements.

Faster installation time means less interruption for customer.

A lighter system that requires a single hand tool to install makes it safer for the installer.

Easier to disassemble and reassemble in future if needed.

● Great Aesthetics

No external racks or dangling wires for a clean, uncluttered look.

No gaps between panels for a contiguous, smooth appearance.

Panels and all hardware are flat black – they look like skylights!

● Long Warranty

12/25 year power output warranty provides confidence in purchasing today and protection in the future.

● Environmentally Sensitive

No external cardboard packaging means less waste to dispose.

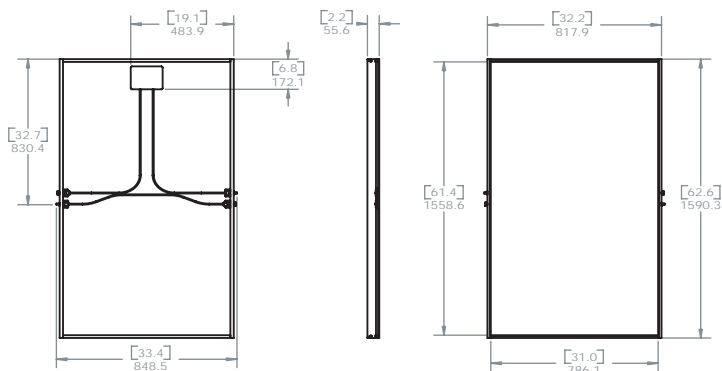
Lighter weight and fewer parts means fewer resources required to produce and less fuel needed to transport.

Mechanical Specifications - Module

Length x Width
62.6 x 32.2 inches
159 x 82 cm

Thickness
2.2 inches
5.6 cm

Weight
40.7 lbs
18.5 kg



Electrical Characteristics at Standard Test Conditions

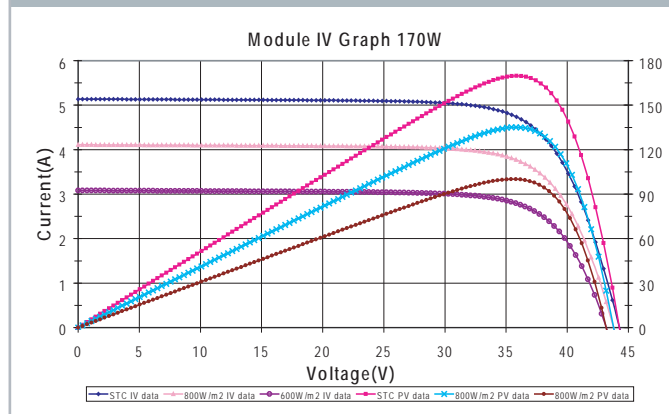
STC: irradiance of 1000W/m², spectrum AM 1.5g, and cell temperature of 25°C

ST170-1		
Peak Power ¹	P _{max}	170W
Output Tolerance		± 3%
Rated Current	I _{mp}	4.83A
Rated Voltage	V _{mp}	35.2V
Short-Circuit Current	I _{sc}	5.14A
Open-Circuit Voltage	V _{oc}	43.8V
Series Fuse Rating		15A
Maximum System Voltage		600V
Temperature Coefficients	Power	-0.5 %/°C (± 0.05)
	Voltage	-0.155 V/°C (± 0.01)
	Current	-0.06 %/°C (± 0.01)
Cell Technology	72 Cell Mono-Si, 125 x 125mm	

¹Peak Power at Output Tolerance

Performance Characteristics

Current vs. Voltage at 22°C
ST170 -1



Mechanical Specifications - System

	ST170-1	Non-Andalay
Racking hardware	Integrated	External
Grounding wires	Integrated	External
Wiring connections	Factory-assembled	Installer-assembled
Module-module connections	Integrated (Threaded)	External (Friction Clips)
Space between modules	1/8"	Up to 3"
Roofing penetrations	25% Fewer	Standard