ST 170-1

Andalay™

A Whole New Look to Solar Power

Attractive, Streamlined Appearance

Andalay's revolutionary engineering secures the parts within each panel, allowing these slim panels to be mounted closer together for a smaller "footprint" with no unsightly mounting racks, dangling wires, or gaps between panels. Together with all-black components, the result is a noticeably smoother, streamlined look.

Built-In Reliability

Andalay panels are modular, yet designed to attach together as an integrated system. All racking hardware, grounding wires, wiring connections – even the connections between panels – are integrated. The result is unparalleled reliability: fewer parts to fail, fewer roof penetrations, and fewer and shorter connections subject to pinch, abrade, or decay.

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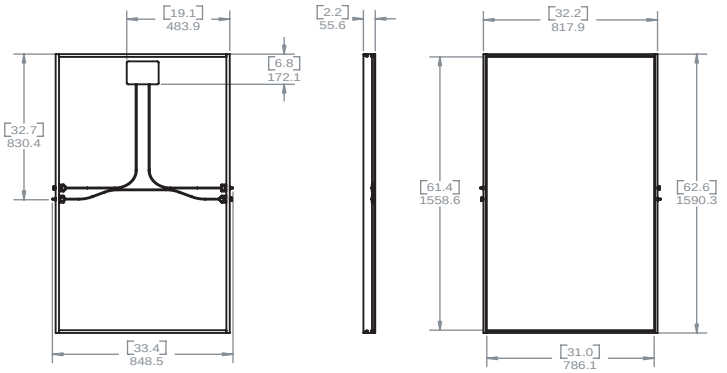
Andalay is an *integrated* solar power *system*

- **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!
- **Built-in Reliability**
  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.
- **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.
- **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.
- **Long Warranty**
  12/25 year power output warranty provides confidence in purchasing today and protection in the future.

Mechanical Specifications - Module

Length x Width	Thickness	Weight
62.6 x 32.2 inches	2.2 inches	40.7 lbs
159 x 82 cm	5.6 cm	18.5 kg



Certified by C SA US Conforms to UL 1703

Electrical Characteristics at Standard Test Conditions

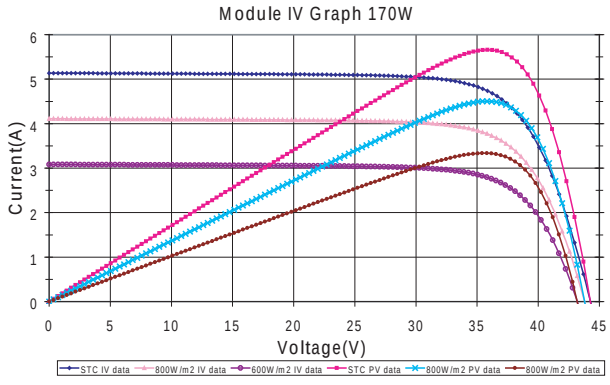
STC: irradiance of 1000W/m^2, spectrum AM 1.5g, and cell temperature of 25°C

		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	

[1]Peak 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

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