

SCA-B Series

U.S. Solar Mounts

Solar Compressed Air (Battery-Based)

The **SCA-B Series** is a Professional-Grade system designed to provide high-volume, reliable compressed air for remote and off-grid sites. Efficient system design and operation provides compressed air even in times when no sunlight is available.

Each unit is ruggedly constructed using high-quality components that have a proven history of durability. In addition to industry-leading quality, the SCA-B Series is loaded with common-sense features. Extensive design and testing along with the use of rugged components ensures a lower overall cost of ownership and a higher return on your investment.

Although the SCA-B Series was designed primarily for permanent installation, several variations are available that accommodate temporary site locations as well. Models intended for temporary deployment are typically skid-mounted and are completely self-contained.

American-Made materials are used throughout the **SCA** to ensure reliable, trouble-free operation for years to come.

The SCA series compressors use the finest American-Made compressors available. In addition, the entire system can be easily installed by anyone using just a few basic hand tools.

Engineered from the ground up, our SCA Series is built tough by Certified Solar Professionals. U.S. Solar Mounts products are crafted by people who truly take pride in what we build and we know that you will, too.

Features:

- 100 % **Engineered and Built in the USA**
- Ultra-Quiet **Brushless DC** Compressor
- Super-Efficient **MPPT Solar Charge Controller**
- **Thermally Insulated** Battery Compartment
- Lexan protective cover for Battery Section
- **Fully Programmable Digital** Run Time Controller
- **Low-Voltage Battery Disconnect**
- **Circuit Breakers – NO FUSES**
- Automatic Pressure Switch (optional)
- 100% Factory Testing ensures high quality
- Complete Standard Warranty



Pole-Mounted, Permanent Install Shown

U.S. Solar Mounts Exclusive Features

Tilt-Out Control Section

Entire pump section swings out for access to every component

Dual Adjustable Flow Balancing Controls

Precision needle valves with flow indicator gauges (optional)

Automatic Speed Reduction (ASR™)

Reduces power consumption by **up to 25%** during times of low or no sunlight

Pole-Mounted Enclosure

Keeps the unit off the ground – away from dust, dirt & rodents

SCA-B Series



Specifications

Power & Electrical

Solar Module(s)	2, 100-Watt Modules Standard, (Larger arrays available)
Racking	Fully Adjustable Top-of-Pole, Various Options Available
Batteries	Sealed GEL Deep Cycle, 2 or 4 Depending on Model
Charge Control	MPPT Algorithm, Temp Compensated
Low-Battery	Yes-With Automatic Re-Start
Circuit Protection	DC Circuit Breakers
Run Time Controller	Digital 7-Day, Fully Programmable Run Times

Compressor

Type	Rocking Piston Brushless DC Compressor
Max Flow Rate	1.8 / 3.6 SCFM, Depending on Model
Over-Pressure	Brass Automatic Pressure Relief Valve
Flow Balancing	Dual Flow Gauges with SS Precision Needle Valves
Sound Level	<50db – Measured at 6'

Thermal Management

Air Intake	Door-Mounted, Replaceable Filters w/Rain Hood
Enclosure Cooling	Thermostat-Controlled Active Ventilation
High-Temp	Yes-With Automatic Re-Start
Compressor	Dedicated Compressor Cooling Fan

Materials & Finishes

Enclosure	Welded & Powder Coated Steel	
Steel Components	High-Strength	
	Baked-On Polyester Power Coat	
Aluminum Rails	6360 T6 Anodized	.2-.25mil Thickness
Codes & Standards	Structural	ASTM A36, A53
	Galvanizing	ASTM A123M
	Plating	ASTM B633
Enclosure Weight	175lbs (No Batteries)	

Applications:

- Famers/Ranchers
- Non-Profit Groups
- Remote Sewage Systems
- Parks
- Bike Trails
- Oil Fields
- Gate De-Icing
- Preppers
- ATV Trails
- Habitat Management
- Golf Courses
- Truck Stops

Specifications subject to change at any time without notice.



Shown with Optional Batteries and Flow Control Valves