



**AM Power Systems, Inc.**  
350 Prospector Road  
Dayton, NV 89403, USA  
Phone: 775-241-0937,  
Cell: 408-691-3738,  
Web site: www.ampowersystems.net

## Solar Power Controllers (SPCs)

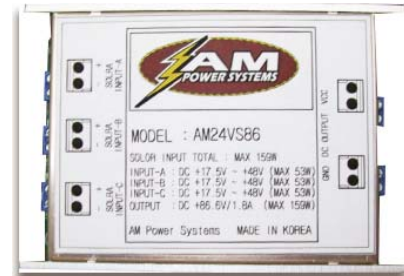
- SOLAR BATTERY CHARGERS for SLA Batteries
- SOLAR PANELS
- AFTER MARKET CHARGING KIT (with SPC, Solar Panel, Insert tray, Wiring)

**AM Power Systems** offers a family of Solar Power Controllers (SPCs) that convert solar energy to battery power that operate in 12V, 24V, 36V, 36V + 12V (dual outputs), 48V and 72V battery charging applications from solar cell electricity generating panels. AM Power Systems also offers solar panels and after market charging kit solutions.

### SOLAR POWER CONTROLLERS (SPC) for SLA (Sealed Lead Acid) Battery Charging

#### SINGLE OUTPUT:

AMSPC1-12V - single output SPC for 12V SLA batteries  
AMSPC1-24V - single output SPC for 24V SLA batteries  
AMSPC1-36V - single output SPC for 36V SLA batteries  
AMSPC1-48V - single output SPC for 48V SLA batteries  
AMSPC1-72V - single output SPC for 72V SLA batteries  
\* available w/three solar panel (PV type) inputs



#### DUAL OUTPUT:

AMSPC2-48V - dual output SPC for 12volt and 36 volt power conversion with 2 solar panel inputs  
AMSPC2-60V - dual output SPC for 12 volt and 48 volt power conversion with 2 solar panel (PV) inputs (introduction TBA)

#### USAGE:

- Golf Carts/Golf Cars
- Cushman and E-Z GO Electric Carts
- Specialty Electric Vehicles / Electric Cars
- Motor Home and Specialty Trailer Back-up Battery Charging Systems
- Specialty Wheel Chairs for the Disabled
- Remote Data Collection Site Power Generation
- Campground Support Equipment
- Boat Battery Charging
- Clay Pigeon Throwers
- Remote Lighting
- Sportsman Activities

#### POWER: 25 ~ 160W Solar Cell

12 VDC - 36 AH SLA Battery  
24 VDC - 30 AH SLA Battery  
36 VDC - 20-24 AH SLA “  
48 VDC - 15-18 AH SLA “  
72 VDC - TBD



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**SIZE:** 4" x 6" x 1.5" w/ aluminum case

**CHARGER POWER RATING:** 125W (28.8V, 5A)  
Constant Voltage and Current with trickle charge function

**EFFICIENCY:** >90% Typical

**SPC INSTALLATION GUIDELINES:**

All solar panel inputs into the SPC must be of approximately equal values (i.e. if using SPC w/2 panel inputs, each must be 25W or 35W or 50W panels or w/3 inputs, each must be 18W, 25W, or 50W.

Mixing of dissimilar panel sizes connected simultaneously may cause improper operation of the SPC. This could cause damage to the SPC.

The SPC will automatically shut off when the battery system is fully charged. The SPC is designed for automatic turn on when batteries have discharged to 90+% of charge capacity.

Connect the input wiring from the solar panel w/at least an 18 gauge (AWG Rating) wire and connect the SPC output to the battery w/at least 16 gauge (AWG Rating) wire.

As this is a trickle charging device, expect 6-8 hours for a full charge to be accomplished on a fully discharged battery.

Maintain a completely clean, dry, moisture free environment for the SPC.

There is a 90 day warranty for the SPC units

**RED** is the *Positive (+)* connection

**BLACK** is the *Ground* connection

**SOLAR PANELS (also available from AM Power Systems)**

Any industry standard appropriate solar panels in the 40 to 80 watt range should function properly with AM Power Systems SPCs. AM Power Systems offers 51 Watt and 80 Watt products. For ease of installation there is only a two-wire connection required between the solar panel and the SPC (solar power controller) unit. There is only a two wire connection as well between the SPC and the SLA battery.

**AFTER MARKET CHARGING KIT (with SPC, Solar Panel, Insert tray, Wiring)**

The after market kit allows for a quick simple user installation. Kit includes all hardware required for mounting solar panels easily adaptable to various environments or applications.

Availability early 2009.