

HOT SUN INDUSTRIES INC.

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[www.h2otsun.com](http://www.h2otsun.com)

POWERSTRIP SOLAR  
HEATING

2013 CATALOG



- *Solar swimming pool heating systems* **858 683 0800**
- *Solar hot water heating systems* **[h2otsun@gmail.com](mailto:h2otsun@gmail.com)**
- *Web based controls and monitoring*
- *Components and accessories*



**Powerstrip fin-tubing**

Powerstrip “Geon” flexible collector material in bulk rolls of 3.75 inches by 88 feet long  
6 flow tubes webbed together  
22 pounds per roll

PART NUMBER PSG-100

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**Powerstrip header manifold**

Three fin tubes adhere to each header manifold  
13.5 inches long  
18 nipples  
1.5” nominal pipe size  
Material : “Luran”

PART NUMBER PSG-110

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**Special adhesive**

4 oz bottle mid viscosity cyanoacrylate adhesive used to secure fin tubes to header manifolds.  
Enough for 60 header manifolds. Comes with 1 oz empty bottle and applicator to speed production

PART NUMBER PSG-120

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**Special adhesive**

1 oz bottle mid viscosity cyanoacrylate adhesive used to secure fin tubes to header manifolds.  
Enough for 15 header manifolds. Apply to nipples then spread evenly with Q-tip.

PART NUMBER PSG-121



**Loctite Powergrab construction mastic**

Used to bond glue strips to roofing (tubes side down) and Powerstrip fin tubes to glue strips back to back.

12 oz tube size allows for stop and start with less runout.

PART NUMBER PSG-102

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**Header vice**

Simple vice holds the header manifold allowing for 2 handed assembly of fin tube to headers.

Includes a small piece of Powerstrip fin tube material and 6 inches of 1.25x1.25 wood and instructions. 2x4 and screws not included

PART NUMBER PSG-111

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**Powerstrip repair kit**

Includes 12 splicers that can be used to splice the fin tubes or replace nipples on headers. 1 oz special adhesive and 6 inches of 6 tube wide Powerstrip fin tubing included with instructions

PART NUMBER PSG-101

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**Powerstrip tubing cutters**

Anvil style cutters are ideal for cutting fin tubing to length.

PART NUMBER PSG-103



PART NUMBER PSG-104

**Glue strip- 2 tube wide Powerstrip fin tube can be purchased separately or stripped from 6 tube wide bulk fin tubing.**

Used to maintain arrangement of adjacent fin tubes and to glue fin tubes to roof. Tubes can be cut from web to remove glued down systems for re-roofing



PART NUMBER PSG-300

**SS strap**

PPA (polypropylene) coated stainless steel strap 1/2 inch wide. Used with ss hardware to secure headers and strap down fin tubing. Tensile strength 3000 pounds!



PART NUMBER PSG-301

**Strap bracket**

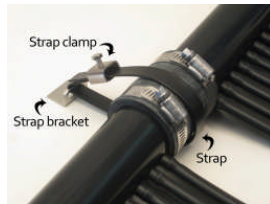
Stainless steel (304 SS) bracket accepts 1/4" lag bolt or #10 deck screw. Used to secure strap to roof



PART NUMBER PSG-302

**Strap clamp**

Stainless steel (304 SS) clamp Joins SS strap to form a loop or end a strap



**Hanger**

12 inches of strap. A strap bracket and a strap clamp sold as a unit. Use between gear clamps on removable couplings to maintain position as headers move with temperature change

PART NUMBER PSG-303



**Hanger clamp**

#32 all stainless steel gear clamp and strap bracket combination positively positions hanger onto 1.5" or 2" fittings

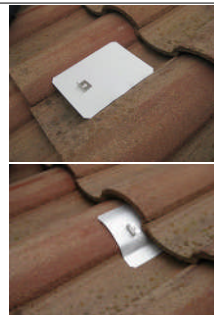
PART NUMBER PSG-304



**Removable rubber coupling 1.5"**

Heavy EPDM rubber sleeve and two #32 all stainless steel gear clamps used to join male ends of Powerstrip headers

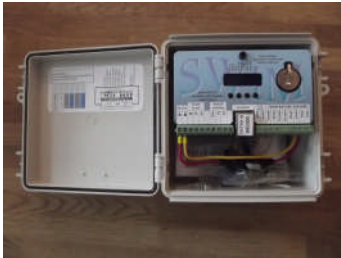
PART NUMBER PSG-310



**Strap bracket riveted to plate**

Heavy EPDM rubber sleeve and two #32 all stainless steel gear clamps used to join male ends of Powerstrip headers

PART NUMBER PSG-320

**SWIM PC solar controller.**

Automatically controls 24VAC solar control valve based on sensor inputs.

Full internet interface with web based monitoring and on line boiler control.

Stores 46 years worth of data

[Specifications sheet](#)

PART NUMBER AUIT-200

**Solar sensor.**

Mounts in same sun as solar panels.

10K thermistor US sensors curve J.

Compatible with all solar and pool automation systems except some Compool controllers

Mimics temperature of Powerstrip solar panels

PART NUMBER AUIT-201

**Water temperature sensor**

Standard pool industry drill in sensor. Fits 2" or 1.5" pipe. Used with pool automation and solar controllers. Three used with SWIM PC solar controller ( pool temp, return temp and downstream of gas heater sensor)

PART NUMBER AUIT 202

**Valve actuator**

CVA 24T motor bolts on to 3 way valve. The solar controller sends 24VAC one way to the valve to turn it one way and 24VAC the other way to turn it the other way. 3 wires. Limit switches cut the power when the adjustable end limit is reached  
Draws 0.65 amps when turning

PART NUMBER AUIT 203



**3 Way Valve PVC**

OFF indicator shown in photo at top indicates port that is blocked. 2" PVC plumbing size. This valve sends water to solar or not. Can be automated using CVA 24T actuator and solar controller

PART NUMBER PLG 401



**Solartouch control system**

This is a basic differential thermostat that can only turn the valve for solar on or off. Includes Hot Sun solar sensor , CVA 24T actuator and 2: 3 way valve plus 2 Pentair water temp sensors. Low cost automation when boiler lockout and web based monitoring and control are not needed.

PART NUMBER AUT 204



**Flow vis flow meter**

Accurate visual measurement of flow rate . We need to know the flow rate if we want the SWIM PC web page to tell us energy delivery.

PART NUMBER PLG 402 (2")  
PART NUMBER PLG 4015 (1.5")

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**Powerstrip solar collector**

Pre assembled and packaged for transport.

8 feet long . Header is 13.5 inches long. That is the space required if alternating the headers. If staggering the fin tube width is 11.25 inches.

See [Powerstrip installation manual](#) for definitions and mounting instructions. Available in any length

CSA certified (Canada)

SRCC and FSEC certified (USA)

PART NUMBER PSG 135 (8 FOOT)

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