



Hot Sun Industries, Inc.

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15 YEAR LIMITED WARRANTY

Hot Sun Industries Inc., (Hot Sun) expressly warrants POWERSTRIP solar collectors to be free from defects in materials and workmanship for a period of fifteen (15) years subject to the following limitations, terms, and conditions.

The POWERSTRIP solar collector consists of 13.5” long manifolds and 3.75” wide flexible fin tubing strips. The two parts are assembled by the installation contractor as part of the supply and installation contract between the dealer and the homeowner. Hot Sun’s liability is limited to replacement of the fin tubes and manifolds. Hot Sun is not liable for the cost of shipping or labor to make repairs or install replacement materials.

Warranty claims must be filed directly with Hot Sun and the decision as to warrantability shall be at the sole discretion of Hot Sun.

- 1) Hot Sun warrants that . when installed in accordance with the Powerstrip installation instructions, Powerstrip solar collectors will not develop leaks due to:
 - a) freezing (if properly winterized). The fin tubing is guaranteed even if left full of water through freezing conditions but rigid piping and manifolds will crack if frozen fully or partly full of water. It is the homeowner’s responsibility to make sure the system drains properly and adequately. Winterizing contracts can be negotiated with the installation contractor. It is important to note that solar collectors for swimming pool heating freeze on clear nights at 42F not 32F.
 - b) degradation due to exposure to sun or
 - c) swimming pool chemicals or any other typical pool chemicals other than ozone. Ozone is known to break down this type of material so if the pool has an ozone generator solar must be returned upstream. North American ozone systems for pools do not create an ozone residual in pools that can be harmful to solar panels.
- 2) The warranty period of 15 years shall begin on the contract installation invoice date from the independent installation contractor. Installation contractors are independent. Hot Sun assumes no liability for work that falls under the said contract. Even if Hot Sun refers or recommends a contractor this shall not be

taken as a declaration of association whereby Hot Sun assumes any liability whatsoever other than the product itself. Hot Sun's liability on materials replacement shall be prorated as follows. Year 1 to year 5: Hot Sun will cover 100% and the homeowner will pay 0% of the cost of Powerstrip materials replaced. Year 6 to year 10, Hot Sun will cover 50% and year 11 to 15 Hot Sun will cover 25%.

- 3) In no event shall Hot Sun be liable for :
 - a) Damage caused by failure or movement of the surface the solar collector is mounted to,
 - b) Any products or parts other than the POWERSTRIP solar collector as described above
 - c) Lack of performance of the solar collector. Many factors affect the performance of a solar heater including weather. If you feel it and it is operating at pool temperature without hot spots then it is operating efficiently
 - d) Damage by acts of God, wind hail, fire, or anything else normally covered by homeowner's insurance
 - e) Consequential damage including but not limited to damage to property occasioned by the installation of the solar collector.
 - f) Changes in the mechanical situation the solar system was originally designed and commissioned for. Specifically this is in regard to pressure. If changes are made the owner must ensure that the pressure the solar collector operates under remains less than 5 psi including the pressure pulse often seen on start up as the initial air is forced down the return pipe to the pool.
 - g) Suction pressure can be damaging. The homeowner must ensure the fin tubes do not collapse when the solar system is turned off. Repeated collapse and inflation of the fin tubes repeatedly over years can cause fatigue stress cracking and failure of the fin tubing. A change in vacuum breaker placement can remedy this problem if it occurs. Subtle changes to pump speed, operating schedule, etc can affect the mechanical situation the solar system must operate in. It is recommended that every year a qualified solar service technician is hired to check the system for excessive pressure or suction issues.
 - h) Variable speed pumps allow for 3050 operating points reaching right up to the equivalent of 3HP. A 3HP pump on a pool is extremely excessive and potentially damaging to solar collectors. Factory priming speeds are set to maximum to ensure the pumps do not lose prime in worst case scenarios (the pump located 10 feet above the pool for example). Priming speeds on pumps must be set as low as possible so that solar heaters do not see excessive pressures.
 - i) Adhesives or balance of system components. The adhesives we specify work. If there is a failure of an adhesive it usually has something to do with an extreme act of God or a surface adhered to and does not amount to Powerstrip components damage.

4)

Its important to note that solar pool heaters are plumbing. Our systems are designed to be treated as an extension of your pool's plumbing. If there is an

issue the parts are inexpensive and the system is designed to be very serviceable. Competing grid style panel systems must be replaced in their entirety (panel by panel) if there is a problem. Hot Sun's system is designed with serviceability in mind.