



SOLAR POWERED SOFFIT FANS LLC

## SPSF 430D Wiring

SPSF 430D includes the following electrical components-

One 12 volt dc 30 watt mono-crystalline solar panel with two lead wires with stripped ends, polarity marked + & -.

Two 12 volt dc IP 55 soffit fan clusters, each with two lead wires with stripped ends, polarity red=+, black = -. Fans are auto start, locked rotor protected, and reverse polarity protected (will not run if polarity is wrong).

Two 15 foot lengths of 16 or 18 awg, 2 conductor, 300 volt UV and water proof wires (landscape wire) with stripped ends and red=+ polarity mark on ends of one conductor.

Medium and small waterproof wire nuts.

SPSF 430D should NEVER be connected to another power source. This is a low voltage, low energy, matched component system.

Connect [red or +] to [red or +], and [black or – or unmarked] to [black or – or unmarked].

Larger wire nuts provided are for solar panel wires.

Wiring connections should be made by twisting stripped bare wire ends together, then twist-on wire nuts until bare wire is covered, then tie the wires together and to the structure with plastic wire ties or electrical tape as pull strain relief.

Fan (short) wires and their connections should be inside the soffit, NOT external/in the weather.

Additional 18 awg/16 awg wires (not provided) can be spliced in to extend solar panel to fan distances up to 100 feet.

To conceal wiring, place wiring on or behind gutters, under roof edge drip flashing, behind down spouts, behind trim, through eaves, etc.

NEVER place any SPSF wiring or components in flammable, combustible, or hazardous atmospheres, or corrosive atmospheres other than natural air.

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Suggested wiring arrangements-

