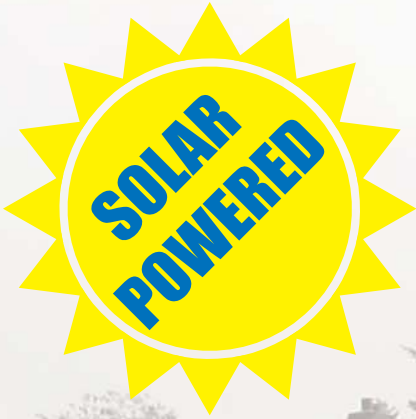


Solar Powered 24-Hour Flashing Beacon

Immediate 97% Reduction in Stop Sign Running
and 89% Reduction in Rolling Stops*



* Las Vegas Sun newspaper - November 22, 2004: "the county Public Works Department set up cameras to record passing traffic, which amounts to more than 23,000 cars a day. Before the warning lights, 204 drivers blew through the stop signs and another 2,312 drivers rolled through the intersection without stopping. After the warning lights, only seven drivers blew the stop signs and only 255 drivers rolled through."

***JSF Technologies' Solar Powered 24-Hour Flashing Beacon installs in minutes
on any stop sign with no wires, no trenching, no roadwork.***



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24HR FLASHING BEACON SYSTEM

Overview

This specification is for a solar powered 24-hour flashing beacon. The system shall consist of a self-contained light engine containing all electronics, batteries, & solar panels. No additional cabinet is required. The flashing beacon shall be LED (Light Emitting Diode) and 12" yellow or red lens, and mount with a standard bracket set to either a wood post or round post.

1.0 Mechanical Specifications

- 1.1 The single signal section shall be constructed of polycarbonate material, and must be adjustable independently from the bracket for lens alignment. The solar panel size shall be three panels of 12 ¾ x 5 1/8" integrated to the solar panel housing, and all batteries and electronics shall be located internally, with no external control cabinet required. The weight unit, shall not exceed 37 pounds. The housing collar shall be 6061T6 Aluminum, powder coated to fit a 2" or 4 ½ inch. pole. The section shall house a Hawker 25 Ah, 2V, BC Cell, sealed lead acid, Batteries shall be field replaceable, and have a 3-5 year service life. The solar panel housing shall be visually appealing, with a smooth machined finish and no superfluous slots or holes.

2.0 Operating Profile

- 2.1 The light engine shall have 112 individual LED's along with (2) flash patterns:
 - 1.) High Visibility Strobe – one second cycle of four 1/16th second flashes, followed by a ½ second pause
 - 2.) MUTCD- a ½ second on, ½ second off cycle
- 2.2 The charged capacity shall operate at a rated usage for 80+ days without solar charging.
- 2.3 During extended sunny periods, the system shall supply extra power to ensure effective visibility in daylight hours. During extended heavily overcast periods or snow cover, the system shall dim the lights and reduce strobe count to ensure that the beacon remain effective for as long as possible. When system detects distressed conditions (such as prolonged solar panel coverage or battery discharge) system will visually notify engineers with a change in the flash cycle.

3.0 Environmental Specifications

- 3.1 The light should be able to withstand and operate at temperature extremes of 40°F - +165°F