

● COMPLIES WITH ICAO ADM, PART 6



SELF-CONTAINED SOLAR POWER SYSTEM

Solar Series Engine™

Purpose-built for the aviation industry — a fully stand-alone power source that deploys anywhere on the airfield or helipad, permanent or portable, with no external power required.

The frangible unit meets ICAO frangibility requirements. With the optional radio-control receiver it manages on/off and intensity for a wide range of equipment — all from the same control system as every other light on the airfield.

From PAPI to wind cones to airfield signs, customers worldwide rely on the Solar Series Engine to power their equipment every day, in the most remote and demanding environments.

**100 / 195 W
up to 600 W**

SOLAR OUTPUT

12 V / 24 V

OPERATING VOLTAGE

-30 → +50 °C

TEMP RANGE

5 years

WARRANTY

Why the Solar Series Engine

FEATURES

- 01 Increase safety**
Engineered to meet ICAO frangibility requirements, protecting aircraft on impact.
- 02 Decrease costs**
Zero electricity cost, simple install and near-zero maintenance — long-term savings.
- 03 Flexible & expandable**
Link units with quick-release military cables for solar systems up to 600 W.
- 04 Custom sizing**
15+ years of solar design ensures reliable operation at any installation site.
- 05 Full control**
Optional RF controller runs the whole airfield wirelessly — tower, aircraft, ground.



Specifications

MECHANICAL

CONFIGURATION

Self-contained solar engine

MOUNTING OPTIONS

Side-of-pole mount (2"–4" poles)
Frangible-coupling mount w/ floor flanges
Quick-deploy portable mount

HOUSING COLORS

Aviation Yellow / Olive Drab
Custom colors available

WEIGHT

100 W: 110 lb (4 batt.) / 135 lb (6 batt.)
195 W: 200 lb (8 batt.)

DIMENSIONS

100 W: 34.5 × 26 × 4.5 in
195 W: 50.5 × 33.25 × 4.5 in

ENCLOSURE & MOUNT

Powder-coated steel

SOLAR

MODULE TECHNOLOGY

Crystalline & amorphous

OPERATING VOLTAGE

12 V or 24 V

MODULE SIZE

100 W or 195 W panel
Up to 600 W with linked units

ELECTRICAL

BATTERY TYPE

Maintenance-free AGM, lead acid

BATTERY AUTONOMY

100 W: 72–108 Ah @ 12 VDC (18 Ah cells)
100 W: 88–132 Ah @ 12 VDC (22 Ah cells)
195 W: 144–176 Ah @ 12 VDC

LIGHTING CONTROL

Optional

LOW-VOLTAGE DISCONNECT

Yes

RADIO CONTROL

Optional RF controller

ENVIRONMENTAL

OPERATING TEMPERATURE

–30 °C to +50 °C
(–22 °F to 122 °F)

WEATHER PROTECTION

NEMA 4 enclosure · UL Listed

WARRANTY & LIFE

WARRANTY

5 yr system components
3 yr pro-rated battery

SOLAR PANEL LIFE

25 years