



R829-G

SOLAR LED SCHOOL ZONE FLASHING BEACON

Schedule-Based Solar Flashing Beacon for School Zones

- Delivers industry-leading high-intensity light output
- ITE Intensity compliant solar system
- Supports programmable time switch operation
- Solar panel and battery sized to meet site-specific demands
- Proven technology platform
- MUTCD compliant

Improves Safety

The R829-G meets ITE Intensity requirements for flashing beacons. Research shows flashing beacons decrease vehicle speeds by five to seven miles per hour in school zones and improve driver awareness by increasing sign visibility.

Configurable

With a variety of solar panel and battery options available, systems can be easily tailored to meet application requirements. The R829-G is custom-configured for optimal performance based on location, solar radiation and application requirements. It is designed to withstand vandalism and extreme weather.

Time Switch Ready

Compatible with Applied Information and RTC time switches. Other time switches may also be compatible. Please consult with Carmanah for additional support.

Advanced User-Interface

The R829-G features an On-Board User Interface (OBUI) and display that provides quick configuration and status monitoring.

Reliable

Designed with Carmanah's industry-leading solar modeling tools to ensure dependable year-round operation. The purpose-built, Energy Management System (EMS) provides reliable operation, even in challenging solar conditions.

Cost-effective Solution

Solar eliminates the costs of trenching, wiring and grid power connections. Quick installation minimizes traffic disruptions. Low maintenance for reduced servicing cycles and zero operational costs.

Trusted

With thousands of installations, Carmanah solar flashing beacons and solar LED products have become the benchmark in traffic and signaling applications worldwide.



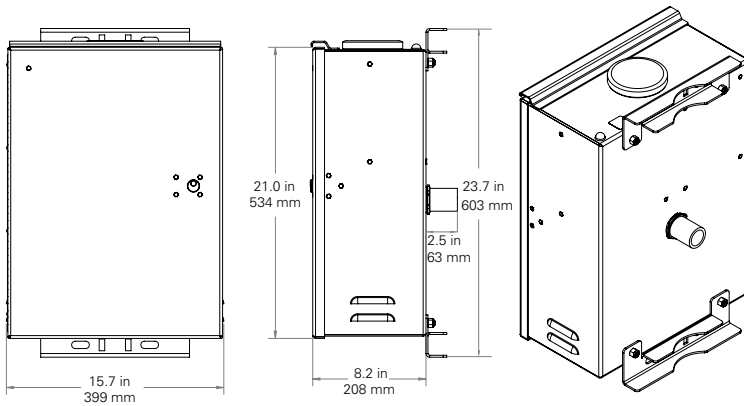
Note: cabinet mountable in other locations on the pole.

REPRESENTED IN YOUR REGION BY:

R829-G

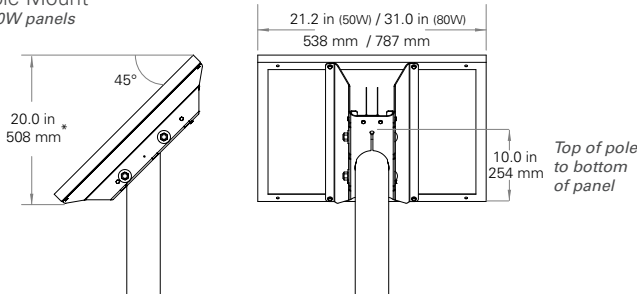
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CABINET DIMENSIONS



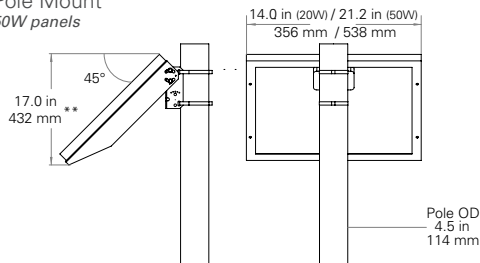
SOLAR PANEL MOUNTS

Top of Pole Mount 50W and 80W panels



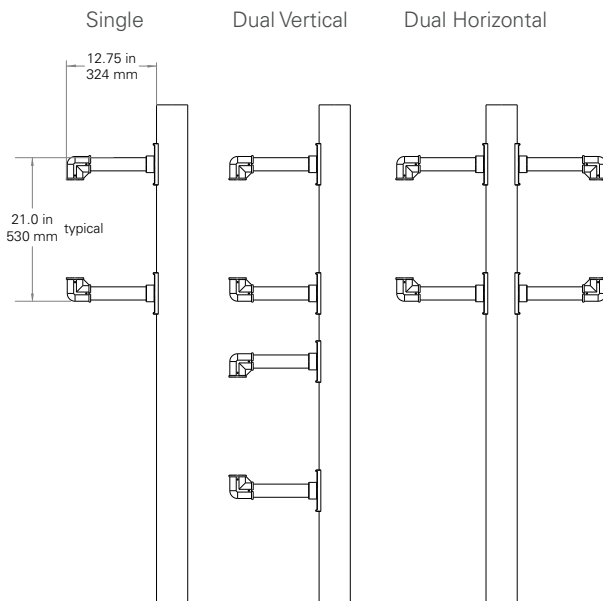
* Maximum dimensions based on 80W panel.

Side of Pole Mount 20W and 50W panels



** Maximum dimensions based on 50W panel.

FIXTURE MOUNTS



SPECIFICATIONS

On-Board User Interface (OBU)	Adjustable, auto-scrolling LED display
	Night-dimming configuration
	System test, status and fault detection
Optical	MUTCD Compliant*; alternate and unison flash pattern
	ITE VTCSH** LED circular signal supplement standard including intensity
	Single or dual 12 in (305 mm) or 8 in (203 mm) diameter LED module, yellow
	Dominant wavelength: 590 nm (yellow)
Energy Collection	High-efficiency photovoltaic module: 20, 50 or 80 watts
	Maximum Power Point Tracking with Temperature Compensation (MPPT-TC) for optimal energy collection in all solar conditions, prevents battery over charging
Energy Storage	Replaceable, recyclable best in-class 12V battery system; Sealed, maintenance-free
	Battery sizes: 33, 75, 100 Ah
Cabinet Construction	Weatherproof, vented screen cabinet for ambient air transfer (NEMA 3R)
	Stainless steel hinged door with industry standard # 2 lock
	Side of pole mounting to standard 4.5 in (114 mm) outside-diameter poles
	Color: black or natural aluminum finish
	Pre-wired assembly designed to minimize installation time
Programming	Compatible with third-party time switches:
	<ul style="list-style-type: none"> Applied Information FCU 500-071 (available in Florida) Applied Information 500-070B (not available in Florida) RTC AP22 with optional M2M cellular modem Other time switches may also be compatible. Please consult with Carmanah for additional support.
Environmental	Operating system temperature (excluding battery): -40 to 176°F (-40 to 80°C)
	Battery operating temperature: -22 to 122°F (-30 to 50°C)
Warranty	5-year limited warranty

* Meets all requirements for design, illumination, and color of signal sections required by 2009 MUTCD, Chapter 4L, Flashing Beacons (MUTCD: Manual on Uniform Traffic Control Devices).

**Meets ITE Intensity when configured and applied as recommended.



All Carmanah products are manufactured in facilities that are certified to ISO quality standards.



Specifications subject to local environmental conditions. Specifications may be subject to change.

US Patent No 6,573,659, Other patents pending.

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