R247-G

Cabinet-Based 24-Hour Flashing Beacon

24-hour flashing beacons for warning and stop signs increase compliance and reduce blow-throughs.

- ✓ Highest intensity output in the industry
- ✓ MUTCD and Buy America compliant
- ✓ Solar or AC-powered
- ✓ Energy Balance Report[™] (EBR) prepared for every location to ensure battery longevity

Superior Design and Technology

The R247-G is a cabinet-based system with a separate, high-power solar panel. This design enables the R247-G to work with remote monitoring and operate at higher intensities in challenging environments. MUTCD flash patterns, available ITE intensity, and multiple configurations enable the R247-G to handle all warning and stop sign applications.

Easy Installation

All components, including the battery or AC power supply and Energy Management System (EMS) are housed in a compact, lockable, purpose-built enclosure. It also incorporates a wire routing and termination system, and all components are wired at the factory for an efficient installation.

Advanced User Interface

The R247-G comes with an on-board user interface for quick configuration and status monitoring. It allows for simple in-the-field adjustment of flash pattern, duration, intensity, ambient auto adjust, night dimming, and many more. Optional manual override switch for local control.

Reliable

Designed with Carmanah's industry-leading solar modeling tools to provide dependable year-after-year operation. We prepare an Energy Balance Report (EBR) for every location.

Trusted for 20+ Years

With thousands of installations, Carmanah's systems are the benchmark in traffic applications and other transportation applications worldwide.

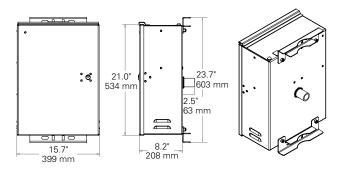


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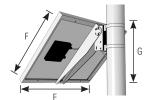
1.844.412.8395 | traffic@carmanah.com | carmanah.com

CABINET DIMENSIONS



SOLAR PANEL MOUNTING

4.5" Diameter Round Top of Pole Mount



Side of Pole Mount

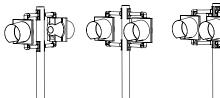
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PANELS*	Α	В	С	D	Е	F	G
20 W	-	-	-	-	13.6" (345 mm)	18.5" (470 mm)	13.8" (350 mm)
50 W	21.2" (538 mm)	26.3" (668 mm)	19.6" (497 mm)	10.0" (254 mm)	26.3" (668 mm)	21.2" (538 mm)	16.0" (405 mm)
80 W	30.7" (780 mm)	26.5" (672 mm)	19.7" (500 mm)	10.0" (254 mm)	30.7" (780 mm)	26.5" (672 mm)	19.7" (500 mm)

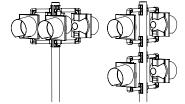
^{*} Carmanah will conduct a site assessment and provide an Energy Balance Report™ to determine the correct solar panel and battery size.

BEACON MOUNTING

Dual Beacon







BEACON SPECIFICATIONS MUTCD compliant: 2009 MUTCD, Chapter 4L, Flashing Beacons, Manual on Uniform Traffic Control Devices (MUTCD) ITE VTCSH-LED Circular Signal Supplement compliant: meets ITE or 1.7x ITE intensity when used as recommended 12 in (305 mm) or 8 in (203 mm) diameter LED modules, yellow or red High-power LEDs: +90% lumen maintenance (L90) based on IES LM-80 Yellow, black, or green signal heads in UV-resistant polycarbonate or aluminum



	SYSTEM	/I SPECIFI	CATIONS
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SYSTEM SI	PECIFICATIONS				
	Adjustable system settings with auto-scrolling LED display on our latest EMS				
	System test, status, and fault detection: battery, solar, button, beacon, radio, day/ night				
	Flash patterns: RFB (WW+S), RFB1 (WW+S legacy), RFB2 (WSDOT), 0.5 sec. alternating (MUTCD), 0.5 sec. unison (MUTCD), 0.5 sec. x3 alternating (MUTCD), 0.1 sec. x3 quick flashes unison, 0.1 sec. x3 quick flashes alternating, steady on				
	Input: momentary for pushbutton activation, normally open switch, normally closed switch				
On-Board	Flash duration: 5 sec. to 1 hr.				
User Interface (OBUI)	Intensity setting: 20 to 1400 mA for multiple circular beacons, RRFBs, or LED enhanced signs				
(0001)	Nighttime dimming: 10 to 100% of daytime intensity				
	Ambient Auto Adjust: increases intensity during bright daytime				
	Automatic Light Control: reduces intensity if the battery is extremely low				
	Temperature correction: yellow or red beacons				
	Calendar: internal time clock function				
	Radio settings: enable/disable, selectable channel from 1 to 14				
	Output: enabled when beacons flashing daytime and nighttime, or nighttime only				
	Activation counts and data reporting via OBUI or optional USB connection				
	Optional encrypted, wireless radio with 2.4 GHz mesh technology				
	Optional radio allows calendar program, manual override switch, or input device				
	from one system to remotely control other systems				
Beacon Communication	User-selectable multiple channels to group different beacons and ensure a robust wireless signal				
	Instantaneous wireless activation: <150 ms				
	Wireless range: 1000 ft (305 m)				
	Integrated, vandal-proof antenna				
Power	Solar or AC-powered				
System	AC: 100-240 VAC input, 6-14 AWG				
	Replaceable AC-DC power supply, circuit breaker, terminal block wiring				
Energy Collection	20, 50, or 80 W high-efficiency photovoltaic solar panel				
	45 deg tilt for optimal energy collection				
	Maximum Power Point Tracking with Temperature Compensation (MPPT-TC) battery charger for optimal energy collection in all solar and battery conditions				
Energy Storage	12 V battery system with multiple sizes: 35, 55, 100 Ahr.				
	Replaceable, recyclable, sealed, maintenance-free, best-in-class AGM batteries offer the widest temperature range and longest life				
	Battery design life: +5 yrs.				
Cabinet Construction	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)				
	Lockable, hinged door with #2 lock Optional padlockable latch				
	Corrosion-resistant aluminum with stainless steel hardware				
	Raw aluminum finish or yellow, black, or green powder coated				
	Prewired to minimize installation time				
	High-efficiency optics and EMS = the most compact, lightweight system				
Environmental	-40 to 165° F (-40 to 74° C) system operating temperature				
	-40 to 162° F (-40 to 72° C) battery operating temperature				
	150 mph (241 kph) wind speed as per AASHTO LTS-6				
Activation	Standard operation is flashing 24 hrs./day				
	Optional internal time clock for calendar programming				
	Optional manual override switch allows local control of beacons				
	Optional junction box: lockable, hinged door, corrosion-resistant aluminum enclosure				



5-year limited warranty

Warranty









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

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

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allows easy calendar programming and access to manual override switch

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