



PowerFlare® Helicopter Landing Zone & Traffic Control Beacons

Compliance and Applications

U.S. DOT (FMCSA) 49 CFR §§ 392.25 & 393.95(g)

MUTCD Type A (flashing) and Type C (solid on)

MIL-SPEC/MIL-STD 810 for shock, vibration, and water-resistance

Military, law enforcement, and emergency medical service (MedEvac) operations often require temporary or portable helicopter landing zones (LZs). The PowerFlare can be rapidly deployed to provide perimeter lighting to mark the LZ. The compact (4") beacons emit 360° of ultra-bright LED light, visible up to 10 miles away. Since the light output is angled and diffused, the pilot's night vision is less likely to be impaired when the aircraft makes its approach or hovers above the LZ. To further improve LZ safety, vehicles, personnel, and gurneys can also be marked with PowerFlare beacons.

The PowerFlare comes in two models: rechargeable and non-rechargeable. The rechargeable beacons are designed for daily use, while the non-rechargeable model has a user-replaceable lithium battery that has a 10 year storage life and won't leak in harsh temperatures. This allows for safe, long-term storage in a car trunk or first aid kit.

Our PowerFlare 6-Pack Rechargeable System comes with 6 of the beacons in a rugged recharging case. The smart recharger (no "memory effect") is plugged into a vehicle hot point (12-30VDC) or, for charging in the office or home, can be plugged into a 120VAC receptacle with optional adapter.

The PowerFlare is waterproof and so tough, it can withstand being run over by trucks at highway speeds. Unlike flashlights with alkaline batteries or light sticks, PowerFlare beacons can handle extreme temperatures and many HAZMAT situations (intrinsically safe). The LED bulbs are unbreakable and can operate thousands of hours. PowerFlare beacons have been proven with some of the most demanding users in the world: military, special forces, SWAT teams (tactical infrared available), rescue units, law enforcement and first responders.

PowerFlare Applications

- Helicopter Landing Zones (LZs): perimeter lighting.
- Airport safety: temporary runway/taxiway marking.
- Tactical operations (military): infrared (IR) model available.
- Search and rescue (SAR) operations: emergency response teams (ERT, CERT).
- Traffic control, work zone safety: beacons can be placed on ground or "wedged" inside of standard traffic cones.
- Use as lantern in case of power failure, earthquake, hurricane or other disaster.
- 360° safety light for cars, motorcycles and bicycles (optional mounting magnets available).
- SCUBA diving/boating: waterproof to 80'.
- Personnel safety: can be clipped on belts, backpacks.



Place PowerFlares on the ground or inside traffic cones for better visibility.



Police car destroyed from accidental combustion of pyrotechnic road flare.

PowerFlare Features

- LED colors: red, amber, blue, green, white, or infrared (IR).
- Flash up to 100 hours (rechargeable), 150 hours (non-rechargeable).
- 10 flash patterns, including 'S-O-S' (Morse) and solid-on (lantern).
- Waterproof, rugged, high grade military polymer shell.

PowerFlare Advantages

- Superior visibility: over 10 miles from the air.
- Rugged: waterproof, can withstand extreme impact.
- Rapid deployment: rechargeable beacons automatically activate when removed from the charger.
- Deployable in harsh environments: can handle extreme temperatures and many HAZMAT situations.
- Compact: about the size of a hockey puck, reducing vulnerability to rotor wash and wind.
- Versatile: can be used for traffic control, as a warning light, as a rescue beacon.
- Tactical: can be deployed for clandestine LZs, drop zones.
- Environmentally friendly: no pollution or fire danger.
- Made in the USA: Don't waste your money or sacrifice your safety with cheap imitations, buy quality American-made beacons.

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PowerFlare Package Options



Single PowerFlare Light:
With red or amber LEDs in a yellow shell with standard retail packaging.



2-Pack with Custom Carry Bag:
2 PowerFlare lights with red or amber LEDs in a yellow shell, 2 spare batteries.



3-Pack with Custom Carry Bag:
3 PowerFlare lights with red or amber LEDs in a yellow shell, 3 spare batteries.



4-Pack with Custom Carry Bag:
4 PowerFlare lights with red or amber LEDs in a yellow shell, 4 spare batteries.



6-Pack with Custom Carry Bag:
6 PowerFlare lights with red or amber LEDs in a yellow shell, 6 spare batteries.



8-Pack with Custom Carry Bag:
8 PowerFlare lights with red or amber LEDs in a yellow shell, 8 spare batteries.



6-Pack Rechargeable System:
6 rechargeable PowerFlare lights with red or amber LEDs in a yellow shell, rugged recharging case.



24-Pack with Custom Carry Case:
24 PowerFlare lights with red or amber LEDs in a yellow shell, Pelican case, 24 spare batteries.



60-Pack with Roller Carry Case:
60 PowerFlare lights with red or amber LEDs in a yellow shell, Pelican case, 60 spare batteries in separate carry bag.

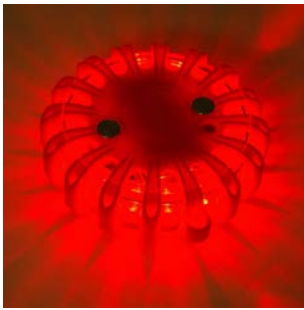


Bucket of Beacons:
Comes in two sizes with white easy-twist on/off reseal lids. Buckets can be ordered with or without a bag of spare batteries.
Large Bucket (5-gallon size): holds up to 36 PowerFlare lights.
Small Bucket (3.5-gallon size): holds up to 24 PowerFlare lights.

Additional package options are available. Please call for details.



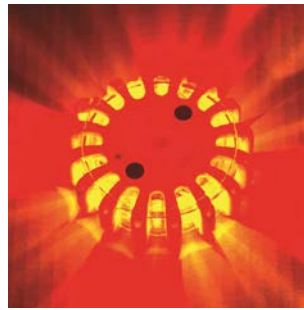
PowerFlare LED Color Options



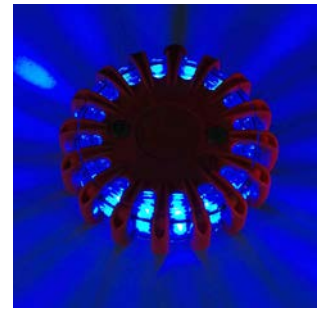
Red



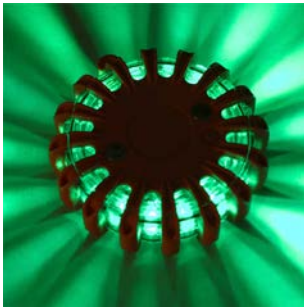
Amber



Red/Amber Combination



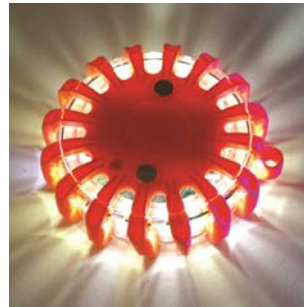
Blue



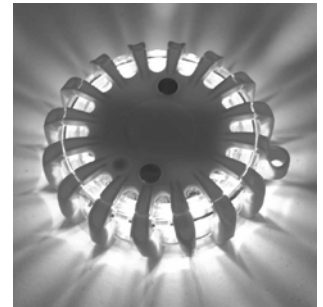
Green



Red/Blue Combination



White



Infrared (IR)

PowerFlare Shell Color Options



Yellow



Orange



Olive Drab Green



Blue



Black



Tan

Additional special order LED and outer shell colors are available. Please call for details.



PowerFlare Specifications

Size:	4.25" (10.8cm) diameter x 1.25" (3.2cm) tall		
Weight:	Less than 7 oz. (200g) with battery		
Battery:	Rechargeable: 1 replaceable RCR-123 3.6V rechargeable Li-Ion battery Non-Rechargeable: 1 replaceable CR-123 Lithium battery		
Shelf-life:	Rechargeable: Holds useful charge for ~60 days out of charger (leave in charger when not in use) Non-Rechargeable: 10 years		
Buoyancy:	Positive (floats); can attach weight		
External Power (rechargeable):	Charger: 12-30VDC, 1A (max.); 0.7A trickle (A/C adapter avail.) @12VDC nominal		
Op. & Storage Temps:	-40/-40° to 212/248° F -40/-40° to 100/120° C		
Emission Source:	360° LED array: solid-state; no filament		
LED Light Colors (per unit):	Red, Amber, Red/Amber Combination, Blue, Green, Red/Blue Combination, White, or Infrared (IR). Custom colors available.		
Light Output Wavelength (nm)	Red: 630 @ 128,000 mcd		
Color & Power (PEP):	Amber: 595 @ 80,000 mcd		
	Blue: 464 @ 38,400 mcd		
	Green: 525 @ 80,000 mcd		
	White: white spectrum @ 96,000 mcd		
	Infrared (IR): 890 @ 236 mW		
Daylight & Night Visibility Ranges:	Night: visible 3,000 ft (914 m) on road or water, >10 miles (16 km) from air Day: visible 1,000 ft (305 m)		
Housing Color & Material:	Yellow, Orange, Olive Drab Green, Blue, Black, or Tan polymer		
Water Depth Rating:	80' submersion		
HAZMAT:	Hermetically sealed; intrinsically safe		
Chemical:	Contains no hazardous chemicals. Withstands exposure to petroleum-based fuels. Avoid acetones and benzopyrenes.		
Switch Type:	Push button		
Flash Patterns (user-selectable)	Flash Pattern:	Rechargeable:	Non-rechargeable:
Max. Run Times, Continuous:*	Solid-On High:	2 hours.....	8 hours
	Rotate:	3 hours.....	20 hours
	Alternate:	2 hours.....	10 hours
	Quad-Blink:	10 hours.....	50 hours
	Double-Blink:.....	7 hours.....	35 hours
	Fast-Blink:.....	8 hours.....	20 hours
	Slow-Blink:	150 hours.....	150 hours
	Solid-On Low:	36 hours.....	100 hours
	"S-O-S":.....	4 hours.....	24 hours
	Flashlight:.....	3 hours.....	25 hours

* Note: Times listed are for red, amber, and IR LEDs. Blue, green and white color LED versions will run from 50-80% of listed times depending on pattern used.



PowerFlare® Cone-Top Adapter

Applications

When traffic control, construction, or accident scenes need elevated lighting for better visibility, PowerFlare lights can be mounted on top of any standard traffic cone using our patent-pending Cone-Top Adapter (CTA-001).

The Cone-Top Adapter can be used with magnetic PowerFlare lights, which attach to an internal piece of metal, allowing for quick and easy installation and removal. For non-magnetic PowerFlare lights, included elastic cords makes securing the light a snap!

Features

- Elevates PowerFlares for better visibility at greater distances
- Quick and easy installation and removal
- Compatible with all PowerFlares - magnetic and non-magnetic



Magnetic PowerFlares attach to an internal piece of metal in the Cone-Top Adapter.



Non-magnetic PowerFlares attach to the Cone-Top Adapter with included elastic cords.



Top view



Bottom view



Available kits include one Cone-Top Adapter per PowerFlare, and are available in packages of 2, 4, 8, 12, and 24. Standard kits come with Red, Amber, or Red/Blue LEDs in yellow shells.



Cone-Top Adapters are also available in packs of 6, 12, 24, and 36 in custom carry bags. Each Cone-Top Adapter is supplied with two elastic cords. Custom quantities available.



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