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GSA Contract No. GS07F-0108J

### Applications

#### Public Safety For:

- Industrial Park Parking Lots
- Shopping Mall Parking Lots
- Sporting Events Parking Lots
- Amusement Parks/Recreational Areas
- College Campus Parking Areas/Walkways

### Standard Features

- Systems Can Mount To Existing Lighting Poles
- Systems Operates 24 Hours Per Day
- Various RAL Colors Available
- Up To 25 Years Solar Panel Warranty
- 5 Year Controller Warranty
- 2 Year Limited Battery Warranty

### Flashing Beacon Technology

- Bright LED Technology That Can Be Seen From Long Distances
- Operates When The Panic Button Is Pressed At The base Of the Mounting Pole

### Siren Technology

- Electronic Siren That Is Available In Programmable Tones To Assign Specific Tone To Specific Areas of The Property

### Battery Technology

- Sealed Battery(s)
- Maintenance Free
- Long Life of up to 7+ Years

**N S T**  
**NATIONAL SOLAR TECHNOLOGIES**

*“World Leader in Solar Power Sources and Solar Lighting Systems”*

# Solar Powered Public Safety Alert System POLESTAR™



Solar panel mounted at the top of an existing parking lot light pole, siren/flasher and HELP sign mounted approx. half way up the pole and the yellow power center/push button station mounted toward the base of the pole.



Up close look at the siren/flasher assembly, HELP sign with arrow and yellow power center with push button station.

### **Push Button Activation Specifications**

- Button cover has tamper alarm to discourage false activation
- Push button is locked when pressed to ensure that the public safety siren and or signal cannot be stopped
- ADA Compliant
- Push button mount is integral to the battery/controls enclosure mounted at the base of the pole
- A sign is mounted above the push button station with the word HELP and an arrow pointing down to the push button station

### **Solar Panel(s)**

- Tempered glass / tedlar construction for light weight, durable capsule for solar cells
- Multicrystalline or Monocrystalline solar cells
- Rigid aluminum frame
- Completely sealed from moisture
- Twist and hail stone tested
- 25 Year warranty on power output/5 Year warranty on workmanship

### **Battery(s)**

- Sealed lead acid battery(s)
- Maintenance free, non-spillable
- 12-24 Volt DC
- Amp hours vary depending on system and geographic location
- Typical battery operating life of up to 7+ years

### **System Controller**

- Solid state solar controller with load control
- Pulse width modulation (PWM) charging
- Low voltage disconnect
- High voltage reconnect
- Regulates battery charging from the solar panel
- 12 Volt DC regulation (some systems regulate 24VDC)
- Typical operating life 15 years

### **Battery Enclosure**

- Steel, powder coated, corrosion resistant enclosure
- Also available in aluminum or stainless steel
- Available in any RAL color choice or standard
- Vented for airflow and heat dissipation
- Pole mount bracket.
- Houses battery(s) and controls
- Life expectancy 25+ years

### **Circuit Protection**

- Fuse block which fuses the solar power input, battery power and light fixture
- System must be fused to protect components from short circuit or surge

### **Siren Information**

- Audible alert device that is constructed of powder coated aluminum
- 110 Decibels at a distance of 10 Ft.
- Dust and moisture proof gaskets
- Up to 32 various tones can be programmed into the siren

### **Flashing Beacon Information**

- Brightest LED flashing beacon available
- Four lens colors available: Green, Amber, Blue or Red
- 60,000 hour, vibration resistant LED lamps
- Corrosion resistant housing
- Operating temperature range of -58 to +150 degrees F

### **Wires and Hardware**

- Connecting wire harnesses for the solar panel(s) and siren/flasher unit
- Mounting hardware

### **System Mounting Specifications**

- Universal mounting clamp that securing fastens the solar panel to the pole
- Universal mounting clamp that secures the power center with the battery/controls and push button station to the base of the pole
- Siren/flasher mount to a universal mounting bracket that attaches to the pole approximately half way up the pole from the ground
- Stainless steel mounting hardware