**SELF-CONTAINED 20 WATT SOLAR ENGINE**

**Solar Panel**
- Solar Cell - Monocrystalline Silicon
- Rated Power (Pmp): 20 Watts
- Rated Voltage (Vmp): 18 VDC
- Rated Current (Imp): 1.1 Amps
- CE and TUV certified

**Std. Solar Angle Mount Options**
- 7° (Flat) or 44° (Standard)

**Standard Battery Bank**
- AGM 12V, 18 Ah - UL Recognized, field replaceable

**Cold Weather Battery Bank Option**
- AGM 12V, 16 Ah - UL Recognized, field replaceable

**Solar Engine Housing Material**
- A5052 Sheet Aluminum, 6061-T6 Aluminum (Powder Coated)

**Solar Engine Dimensions**
- 15.75" x 13.25" X 4.5" (40 x 33.7 x 11.5cm)*

**POWER MANAGEMENT**

**Charged Capacity**
- Up to 30 days at rated usage (without charging)

**Automatic Light Control (ALC)**
- Various stages of brightness for different solar conditions and battery levels

**SYSTEM PROTECTION**

**Low Voltage Disconnect**
- 9.5 VDC

**Over Current Protection**
- 18 Amp PTC auto-reset fuse

**Self Monitoring**
- Visual notification of sub-optimal operation

**LED BEACON SIGNAL HEAD**

**Standard Followed**
- ITE VTCSH-STD 2005

**LED Beacon Signal Head Setup**
- Single Head, Pole Top Mounting

**Lens Material**
- UV Stabilized Polycarbonate

**LED Housing**
- 100% Polycarbonate

**LED Size**
- 8" Diameter (200 mm)*
- 12" Diameter (300mm)*

**LED Housing Dimensions**
- 8" head - 14" x 10" x 6" (35 x 25 x 16 cm)*
- 12" head - 17" x 14" x 6" (44 x 25 x 17 cm)*

**Std. LED Color Options**
- Amber or Red (custom colors available)

**SYSTEM OPTIONS**

**LED & Solar Engine Housing Colors**
- Yellow, Black or Green (custom colors available)

**Mounting Options**
- Round Pole Collars: 2.5", 3.5", 5" and 6"
- Square Wood Post Saddle: 4x4", 6x6"
- Telespar & U-Channel: 2"
- Side Mount Bracket: 12", 18" and custom lengths available
- Custom Mounts Available

**WARRANTY**
- 5-year Limited Warranty for defects in workmanship and materials (excludes batteries and vandalism)

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**FL-1400-20W 24-Hour Flashing Beacon**

**SYSTEM OVERVIEW**

**Compliance**
- FHWA MUTCD Compliant
- FCC EMC Class A Verified

**Standard (Std.) Operation**
- Continuous Flashing, 24-hours a day, 365 days a year

**Operation Functions**
- Continuous Flashing from dawn to dusk
- Manual ON/OFF Capability (for user-provided switch)

**Flash Pattern Options**
- MUTCD Standard (0.5 seconds ON, 0.5 seconds OFF)
- JSFT Strobe Energy Efficient Flash Pattern**

**Std. Operating Temperature**
- 14°F to + 165°F (-10°C to +74°C)

**Cold Weather Upgrade Option**
- -40°F to +176°F (-40°C to +80°C)

**System Voltage**
- 12 VDC

**Packaged Dimensions**
- 8" head - 22" x 18" x 16" @ 36 lbs (56 x 46 x 41cm @ 16.3 kg)*
- 12" head - 24" x 18" x 18" @ 38 lbs (61 x 46 x 46cm @ 17.2 kg)*

**SALES**
- Toll-Free: 1.800.990.2454
- sales@jsftech.com

**SUPPORT**
- Toll-Free: 1.800.990.2454
- support@jsftech.com

**ADDRESS**
- 6582 Bryn Road, Victoria, BC V8M 1X6

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*All measurements and weights are approximate  **50% power consumption of MUTCD
**FL-1400-20W 24-Hour Flashing Beacon**

**MOUNTING OPTIONS**

- **3.5” ROUND COLLARS**
- **5” ROUND COLLARS**
- **6” ROUND COLLARS**
- **4x4” WOOD POSTS**
- **6x6” WOOD POSTS**
- **2” TELESPAR MOUNT**
- **MOUNTING ARMS (CUSTOM LENGTHS AVAILABLE)**

**SYSTEM DRAWINGS**

**FL-1408**
FLAT PANEL MOUNT

**FL-1408**
STANDARD PANEL MOUNT

**FL-1412**
FLAT PANEL MOUNT

**FL-1412**
STANDARD PANEL MOUNT

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**SELF-CONTAINED 40 WATT SOLAR ENGINE**

- **Solar Panel**
  - Solar Cell - Monocrystalline Silicon
  - Rated Power (Pmp) 40 Watts
  - Rated Voltage (Vmp) 18 VDC
  - Rated Current (Imp) 2.2 Amps
  - CE and TUV certified

- **Solar Angle**
  - 7° (Flat)
  - 44° (Standard)

- **Standard Battery Bank**
  - 2 x AGM 12V, 16 Ah - UL Recognized, field replaceable

- **Cold Weather Battery Bank Option**
  - 2 x AGM 12V, 16 Ah - UL Recognized, field replaceable

- **Solar Engine Housing Material**
  - AS052 Sheet Aluminum (Enclosure)
  - 6061-T6 Aluminum (Mount)

- **Solar Engine Dimensions**
  - 15.75” x 13.25” x 4.5” (40 x 33.7 x 11.5cm)*

**POWER MANAGEMENT**

- **Charged Capacity**
  - Up to 30 days at rated usage

- **Automatic Light Control (ALC)**
  - Various stages of brightness for different solar conditions and battery levels

**SYSTEM PROTECTION**

- **Low Voltage Disconnect**
  - 9.5 VDC

- **Over Current Protection**
  - 1.8 Amp PTC auto-reset fuse

- **Self Monitoring**
  - Visual notification of sub-optimal operation

**LED BEACON SIGNAL HEAD**

- **Standard Followed**
  - ITE VTCSH-STD 2005

- **LED Beacon Signal Head Setup**
  - Dual Heads
  - Pole Top Mounting

- **Lens Material**
  - UV stabilized polycarbonate and Abrasion resistant

- **LED Housing**
  - 100% Polycarbonate

- **LED Size**
  - 8” Diameter (200 mm)*
  - 12” Diameter (300mm)*

- **LED Housing Dimensions**
  - 8” head - 14” x 10” x 6”
  - (35 x 25 x 16 cm)*
  - 12” head - 17” x 14” x 6”
  - (44 x 25 x 17 cm)*

- **Std. LED Color Options**
  - Amber or Red (custom colors available)

**SYSTEM OPTIONS**

- **LED & Solar Engine Housing Colors**
  - Yellow, Black or Green
  - (custom colors available)

- **Mounting Options**
  - Wood Post Saddle Mount: 4” x 4”, 6” x 6”
  - Round Collar Mount: 2.5”, 3.5”, 5”, 6”
  - Side Mount Bracket: 18”, 36”, and 48”

**SYSTEM OVERVIEW**

- **Compliance**
  - FHWA MUTCD Compliant

- **Standard Operation**
  - Continuous Flashing, 24-hours a day, 365 days a year
  - Manual On/Off capability with user supplied switch

- **Flash Pattern Options**
  - MUTCD Standard (0.5 seconds ON, 0.5 seconds OFF)
  - JSFT Strobe Energy Efficient Flash Pattern**
  - JSFT Wig - Wag Strobe Energy Efficient Flash Pattern**
  - MUTCD Wig - Wag

- **Std. Operating Temperature**
  - 14°F to +165°F (-10°C to +74°C)

- **Cold Weather Upgrade Option**
  - -40°F to +176°F (-40°C to +80°C)

- **System Voltage**
  - 12 VDC

- **Packaged Dimensions**
  - 8” head - 35” x 28” x 17” @ 74 lbs
  - (89 x 71 x 43cm @ 34 kg)*
  - 12” head - 35” x 28” x 17” @ 84 lbs
  - (89 x 71 x 45cm @ 38 kg)*

**WARRANTY**

- 5-year Limited Warranty for defects in workmanship and materials (excludes batteries and vandalism)

*All measurements and weights are approximate **50% power consumption of MUTCD
MOUNTING OPTIONS

FL-2408-40W FLAT PANEL ANGLE

FL-2412-40W FLAT PANEL ANGLE

FL-2400-40W 24-Hour Flashing Beacon

MOUNTING OPTIONS

STANDARD PANEL ANGLE MOUNTS

WOOD POST SADDLE MOUNT

FLAT PANEL ANGLE MOUNTS

WOOD POST SADDLE MOUNT

STANDARD ROUND MOUNT

SYSTEM DRAWINGS

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SELF-CONTAINED 40 WATT SOLAR ENGINE

Solar Panel
- Solar Cell - Monocrystalline Silicon
- Rated Power (Pmp) 40 Watts
- Rated Voltage (Vmp) 18 VDC
- Rated Current (Imp) 2.2 Amps
- CE and TUV certified

Solar Angle
- 44° (Standard)

Standard Battery Bank
- 2 x AGM 12V, 18 Ah - UL Recognized, field replaceable

Cold Weather Battery Bank Option
- 2 x AGM 12V, 16 Ah - UL Recognized, field replaceable

Solar Engine Housing Material
- AS502 Sheet Aluminum (Enclosure)
- 6061-T6 Aluminum (Mount)

Solar Engine Dimensions
- 15.75” x 13.25” x 4.5” (40 x 33.7 x 11.5cm)*

POWER MANAGEMENT

Charged Capacity
- Up to 30 days at rated usage

Automatic Light Control (ALC)
- Various stages of brightness for different solar conditions and battery levels

SYSTEM PROTECTION

Low Voltage Disconnect
- 9.5 VDC

Over Current Protection
- 1.8 Amp PTC auto-reset fuse

Self Monitoring
- Visual notification of sub-optimal operation

LED BEACON SIGNAL HEAD

Standard Followed
- ITE VTCSH-STD 2005

LED Beacon Signal Head Setup
- Dual Heads, Overhead Horizontal Mounting

Lens Material
- UV stabilized polycarbonate and Abrasion resistant

LED Housing
- 100% Polycarbonate

LED Size
- 8” Diameter (200 mm)*
- 12” Diameter (300mm)*

LED Housing Dimensions
- 8” head - 14” x 10” x 6” (35 x 25 x 16 cm)*
- 12” head - 17” x 14” x 6” (44 x 25 x 7 cm)*

Std. LED Color Options
- Amber or Red (custom colors available)

SYSTEM OPTIONS

LED & Solar Engine Housing Colors
- Yellow, Black or Green (custom colors available)

Mounting Options
- Round Pole Collars: 2.5”, 3.5”, 5” and 6”
- Square Wood Post Saddle: 4x4”, 6x6”
- Telespar & U-Channel: 2”
- Side Mount Bracket: 9”, 12”, 18” and custom lengths available
- Custom Mounts Available

SYSTEM OVERVIEW

Compliance
- FHWA MUTCD Compliant

Standard Operation
- Continuous Flashing, 24-hours a day, 365 days a year
- Manual On/Off capability with user supplied switch

Flash Pattern Options
- MUTCD Standard (0.5 seconds ON, 0.5 seconds OFF)
- JSFT Strobe Energy Efficient Flash Pattern**
- JSFT Wig - Wag Strobe Energy Efficient Flash Pattern**
- MUTCD Wig - Wag

Std. Operating Temperature
- 14°F to + 165°F (-10°C to +74°C)

Cold Weather Upgrade Option
- -40°F to +176°F (-40°C to +80°C)

System Voltage
- 12 VDC

Packaged Dimensions
- 8” head - 36” x 18” x 18” @ 75 lbs (92 x 46 x 46cm @ 34 kg)*
- 12” head - 36” x 18” x 18” @ 78 lbs (91.5 x 45.7 x 45.7cm @ 35 kg)*

SALES
- Toll-Free 1-800.990.2454
- sales@jsftech.com

SUPPORT
- Toll-Free 1-800.990.2454
- support@jsftech.com

ADDRESS
- 6582 Bryn Road, Victoria, BC V8M 1X6

WARRANTY
- 5-year Limited Warranty for defects in workmanship and materials (excludes batteries and vandalism)

*All measurements and weights are approximate  **50% power consumption of MUTCD
**FL-3400-40W 24-Hour Flashing Beacon**

**SIDE MOUNT BRACKET**

```
9"  12"  18"
```

**SIGNAL HEAD MOUNTING OPTIONS**

- **ROUND POLE MOUNT**
  - 2.5"
  - 3.5"
  - 5"
  - 6"

- **WOOD SADDLE MOUNT**
  - 4x4"
  - 6x6"

- **MOUNTING ARMS (CUSTOM LENGTHS AVAILABLE)**
  - 12"
  - 18"

- **TELESPAR MOUNT**
  - 2"

- **MAST ARM DIRECT MOUNT BRACKET**

**SOLAR ENGINE MOUNTING OPTIONS**

- **SIDE MOUNT BRACKET - HORIZONTAL**

- **SIDE MOUNT BRACKET - VERTICAL POLE**

- **SIDE MOUNT BRACKET - VERTICAL**

**SYSTEM DRAWINGS**

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**SELF-CONTAINED 20 WATT SOLAR ENGINE**

Solar Panel
- Solar Cell - Monocrystalline Silicon
- Rated Power (Pmp) 20 Watts
- Rated Voltage (Vmp) 18 VDC
- Rated Current (Imp) 1.1 Amps
- CE and TUV certified

SOLAR ENGINE AVAILABLE WITH STANDARD COLOURS; YELLOW, BLACK, OR GREEN. CUSTOM COLOURS ARE ALWAYS AVAILABLE.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Std. Solar Angle Mount</td>
<td>44°</td>
</tr>
<tr>
<td>Snow Mount Upgrade</td>
<td>67°</td>
</tr>
<tr>
<td>Standard Battery Bank</td>
<td>AGM 12V, 18 Ah - UL Recognized, field replaceable</td>
</tr>
<tr>
<td>Cold Weather Battery Bank Option</td>
<td>AGM 12V, 16 Ah - UL Recognized, field replaceable</td>
</tr>
<tr>
<td>Solar Engine Housing Material</td>
<td>AS052 Sheet Aluminum (Enclosure) 6061-T6 Aluminum (Mount)</td>
</tr>
<tr>
<td>Solar Engine Dimensions</td>
<td>15.75” x 13.25” x 4.5” (40 x 33.7 x 11.5cm)*</td>
</tr>
</tbody>
</table>

**POWER MANAGEMENT**

- **Rated Usage**: 300 cycles per day, 25 second activation
- **Charged Capacity**: Up to 30 days at rated usage (without charging)
- **Automatic Light Control (ALC)**: Various stages of brightness for different solar conditions and battery levels

**SYSTEM PROTECTION**

- **Low Voltage Disconnect**: 9.5 VDC
- **Over Current Protection**: 18 Amp PTC auto-reset fuse
- **Self Monitoring**: Visual notification of sub-optimal operation

**LED ROAD SIGN**

- **Sign Style**: To be determined by customer
- **Standard Road Sign Sizes**: 24”, 30”, 36”, or 48” and others upon request
- **Road Sign Configuration**: Single Sign only
- **Std. LED Configuration**: Available in 6 or 8 LEDs per sign
- **LED Light Output**: 132 lumens
- **LED Size**: 0.75” (20mm)
- **LED Colors**: Amber, Red or White

**SYSTEM OPTIONS**

- **LED & Solar Engine Housing Colors**: Yellow, Black or Green (custom colors available)
- **Mounting Options**: Round Pole Collars: 2.5”, 3.5”, 5” and 6”
  - Square Wood Post Saddle: 4x4”, 6x6”
  - Telespar & U-Channel: 2”
  - Side Mount Bracket: 12”, 18” and custom lengths available
  - Custom Mounts Available

**SYSTEM OVERVIEW**

- **Compliance**: FHWA MUTCD Compliant
  - FCC EMC Class A Verified
- **Standard Operation**: Continuous Flashing, 24-hours a day, 365 days a year
- **Flash Pattern Options**: MUTCD Standard (0.5 seconds ON, 0.5 seconds OFF)
  - JSFT Strobe Energy Efficient Flash Pattern**
- **Operational Functions**: Continuous Flashing from dawn to dusk
  - Continuous Flashing from dusk to dawn
  - Manual ON/OFF Capability (for user-provided switch)
- **Std. Operating Temperature**: 14°F to +165°F (-10°C to +74°C)
- **Cold Weather Upgrade Option**: -40°F to +176°F (-40°C to +80°C)
- **System Voltage**: 12 VDC

**SALES**

- Toll-Free: 1.800.990.2454
- sales@jsftech.com

**SUPPORT**

- Toll-Free: 1.800.990.2454
- support@jsftech.com

**ADDRESS**

6582 Bryn Road, Victoria, BC V8M 1X6

**WARRANTY** 5-year Limited Warranty for defects in workmanship and materials (excludes batteries and vandalism)

*All measurements and weights are approximate  **50% power consumption of MUTCD
FL-5800-20W 24-Hour LED Flashing Signs

SOLAR ENGINE MOUNTING OPTIONS

ISO VIEW

FRONT VIEW

15-3/4"

SIDE VIEW

13-1/4"

37°

44°

TBD

FL SERIES

SYSTEM DRAWINGS

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SELF-CONTAINED 40 WATT SOLAR ENGINE

**Solar Panel**
- Solar Cell - Monocrystalline Silicon
- Rated Power (Pmp) 40 Watts
- Rated Voltage (Vmp) 18 VDC
- Rated Current (Imp) 2.2 A
- Certifications: CE and TUV certified

**Solar Angle**
- 44° (Standard)

**Standard Battery Bank**
- 2 x AGM 12V, 18 Ah - UL Recognized, field replaceable

**Cold Weather Battery Bank Option**
- 2 x AGM 12V, 16 Ah - UL Recognized, field replaceable

**Solar Engine Housing Material**
- AS052 Sheet Aluminum (Enclosure)
- 6061-T6 Aluminum (Mount)

**Solar Engine Dimensions**
- 30.875" x 13.25" x 4.5" (78.4 x 33.7 x 11.5cm)*

POWER MANAGEMENT

**Charged Capacity**
- Up to 30 days at rated usage

**Automatic Light Control (ALC)**
- Various stages of brightness for different solar conditions and battery levels

SYSTEM PROTECTION

**Low Voltage Disconnect**
- 9.5 VDC

**Over Current Protection**
- 18 Amp PTC auto-reset fuse

**Self Monitoring**
- Visual notification of sub-optimal operation

LED BEACON SIGNAL HEAD

**Standard Followed**
- ITE VTCSH-STD 2005

**LED Beacon Signal Head Setup**
- Dual Heads, Vertical Pole Mounting

**Lens Material**
- UV stabilized polycarbonate and Abrasion resistant

**LED Housing**
- 100% Polycarbonate
- 8" Diameter (200 mm)*
- 12" Diameter (300mm)*

**LED Housing Dimensions**
- 8" head - 14" x 10" x 6" (35 x 25 x 16 cm)*
- 12" head - 17" x 14" x 6" (44 x 25 x 17 cm)*

**Std. LED Color Options**
- Amber or Red (custom colors available)

SYSTEM OPTIONS

**LED & Solar Engine Housing Colors**
- Yellow, Black or Green (custom colors available)

**Mounting Options**
- Side Mount Bracket: 12", and 18" and custom lengths available
- Signal & Solar Head Side Mount Bracket Custom Mounts Available

POWER MANAGEMENT

**Charged Capacity**
- Up to 30 days at rated usage

**Automatic Light Control (ALC)**
- Various stages of brightness for different solar conditions and battery levels

SYSTEM PROTECTION

**Low Voltage Disconnect**
- 9.5 VDC

**Over Current Protection**
- 18 Amp PTC auto-reset fuse

**Self Monitoring**
- Visual notification of sub-optimal operation

LED BEACON SIGNAL HEAD

**Standard Followed**
- ITE VTCSH-STD 2005

**LED Beacon Signal Head Setup**
- Dual Heads, Vertical Pole Mounting

**Lens Material**
- UV stabilized polycarbonate and Abrasion resistant

**LED Housing**
- 100% Polycarbonate
- 8" Diameter (200 mm)*
- 12" Diameter (300mm)*

**LED Housing Dimensions**
- 8" head - 14" x 10" x 6" (35 x 25 x 16 cm)*
- 12" head - 17" x 14" x 6" (44 x 25 x 17 cm)*

**Std. LED Color Options**
- Amber or Red (custom colors available)

SYSTEM OPTIONS

**LED & Solar Engine Housing Colors**
- Yellow, Black or Green (custom colors available)

**Mounting Options**
- Side Mount Bracket: 12", and 18" and custom lengths available
- Signal & Solar Head Side Mount Bracket Custom Mounts Available

WARRANTY
5-year Limited Warranty for defects in workmanship and materials (excludes batteries and vandalism)

*All measurements and weights are approximate  **50% power consumption of MUTCD
**FL-7400-40W 24-Hour Flashing Beacon**

**SIGNAL HEAD MOUNTING OPTIONS**

- **ISO VIEW**
- **FRONT VIEW**
- **SIDE VIEW**

**SOLAR ENGINE MOUNTING OPTIONS**

- **ISO VIEW**
- **FRONT VIEW**
- **SIDE VIEW**

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**SYSTEM DRAWINGS**

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