IP68
Submersible

IK10
Vandal Resistant

No
Power Bills

Simple & Low
Install Cost

Clean Energy
Lighting

Minimal
Maintenance

Install
Yourself

# SBL2 Model Range

## 2020

# SBL2 Series S Model

The 3rd generation SBL2 Model solar powered bollard light was specifically designed to be capable for submersion (IP68) for lighting Pathways, Driveways, Laneways, Stairways, in locations where cyclones-hurricanes-typhoons, tidal surges, tsunamis, and generalised flooding is prominent and with specific power models designed for locations that are fully shaded throughout the day with only ambient irradiation available to recharge fully each day.

### KEY FEATURES OF THE SBL2 OVER COMPETITORS & ON-GRID PRODUCTS

- Low cost and quick installation, no trenching, cabling or wiring required
- IP68 Certified (AS/NZS 60529:2004 IPx8, IP4x, IP6x) submersible to 3m depth
- IK10 Certified (IEC 62262:2002) can withstand impact from debris and vandalism
- Isolated from power outages for continuous illumination
- Up to 70% more autonomy than competitors at full power output dusk until dawn

From vandal attack, severe high wind events, flood disasters, monsoonal rain, crashing waves, tidal surges, golf ball size hail or just daily snow coverage, no similar product will out perform the IK10 impact resistant construction of the SBL2, making it the perfect asset for durability and continuous performance at full power dusk until dawn operation 365 days of the year in high risk or heavily shaded areas where continuous lighting is required.

## TECHNICAL SPECIFICATIONS

### Overview

- **Dome Material** — SABIC SLX LEXAN (Highest UV Stabilised PC available)
- **Housing Material** — SABIC LEXAN 203R (UV Stabilised)
- **Internal Materials** — STAREX ASA
- **LED Chips** — 8 x 5mm Piranha LED Super Bright
  - Asymmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
  - Symmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
- **Voltage** — 3.2V (ELV intrinsically safe no UL certification required for USA)
- **Operate Temp** — -30°C ~ +60°C ambient (runs safely up to 100°C)
- **Maintenance** — Annual clean and polish for peak performance
- **Warranty** — 10 Years (subject to SBL Warranty T&C's)
- **Certifications**
  - IP68 OFFICIALLY TESTED (AS/NZS 60529:2004 IPx8, IP4x, IP6x)
  - IK10 OFFICIALLY TESTED (IEC 62262:2002)
  - Photometric (IESNA LM-79-08)
  - Hazardous Area/CE/RCM (T.B.T)
- **Weight** — Net Weight 3kg (6.6lbs)

### Solar Module

- **Wattage** — 5w Mono-Crystalline
- **Vmp (V)** — 5V
- **Imp (A)** — 1 Amp
- **Design Life** — 10 Years @ 100%

### Battery

- **Type** — 3.2V 17Ah Cylindrical LiFePo4
- **Cycles** — 3700 (expected minimum)
- **Design Life** — 10 Years + (expected minimum)

### Electronics

RoHS compliant

- **Design Life** — 10 Years + (expected minimum)
- **Runtime** — Dusk until Dawn full power
- **On/Off** — Solar Panel Voltage

### Poles (25um anodised standard or powder coated)

- **Material** — 6106 T6 Aluminium Marine Grade
- **Grade** — High Tensile / Light Weight
- **Durability** — High Corrosion Resistance
- **Collar** — 25um Anodised
- **Hardware** — Security Bolts 4 x M6 - 316 SS

IP68 Submersible | IK10 Vandal Resistant | No Power Bills | Simple & Low Install Cost | Clean Energy Lighting | Minimal Maintenance | Install Yourself

# SBL2 Series S Model

## Solar Powered LED Bollard

## ORDER MATRIX

| Power Model | LED Configuration | Mount Code | Dimension | Installed Height with Light Attached | Pole Finish Options |
|---|---|---|---|---|---|
| 040 - 40mA | ANW | -130WM | 130mm/5.1” | 290mm / 11.4” | **A** - 25um Anodised - Clear (Silver Colour) |
| 080 - 80mA | SNW | -142BP | 142mm/5.6” | 302mm / 11.9” | **AB** - 25um Anodised - Ebony (Near Black) + |
| 120 - 120mA | AWW | -840BP | 840mm/33” | 1000mm / 39.4” | **PC** - Black Satin 27219268 (Default Colour) |
| 160 - 160mA | SWW | -1140DB | 1140mm/44.9” | 1000mm / 39.4” | **PCCC** - Custom Powder Coat Colour + From Dulux DURALLOY or ALPHATEC Colour Range (under 15 poles $200 Minium Charge Loading Added on top of total cost) |
| 200 - 200mA | | -1340BP | 1340mm/53” | 1500mm / 59” | |
| 240 - 240mA | **LED DESCRIPTION** **ANW** - Asymmetrical (180°) 4300K +/- LED **SNW** - Symmetrical (360°) 4300K +/- LED **AWW** - Asymmetrical (180°) 3000K +/- LED **SWW** - Symmetrical (360°) 3000K +/- LED | -1790DB | 1790mm/70.4” | 1500mm / 59” | + Special Order Option with longer lead time |
| 280 - 280mA | | -1840BP | 1840mm/79” | 2000mm / 79” | |
| | | -2440DB | 2440mm/96.5” | 2000mm / 79” | |

**MOUNTING CODE DESCRIPTION**
**WM** - Wall Mount Bracket
**DBA** - Direct Bury
**BPA** - Base Plate

Ordering Example :
**SBL2-**160ANW-1140DBPC = 160mA Asymmetrical Natural White Light on 1140mm/44.9” Black Powder Coated Direct Bury Pole

| | Power Model | LED | | Mount Code | Pole Finish Option |
|---|---|---|---|---|---|
| SBL2- | | | - | | |

**Notes:**
- Specifications subject to change without notice
- All light levels in lux

# SBL2 Series S Model

## Solar Powered LED Bollard

# ASYMMETRICAL ISOLUX EXAMPLES

4300K +/- 300K LED - GRID = 10m / 32.8’ x 10m / 32.8’ All Values = Lux @ 1m / 40” Overall Height

SBL2-040ANW

SBL2-160ANW

SBL2-080ANW

SBL2-200ANW

SBL2-120ANW

SBL2-240ANW

# SBL2 Series M Model

The 3rd generation SBL2 M Model solar powered bollard light was specifically designed to be capable for submersion (IP68) for lighting Pathways, Marinas, Pontoons, Jetties, Floating Walkways, Boat Ramp locations where possible cyclones/hurricanes/typhoons, tsunamis, generalised flooding is prominent and with specific power models designed for locations that are fully shaded throughout the day with only ambient irradiation available to recharge fully each day.

### KEY FEATURES OF THE SBL2 OVER COMPETITORS & ON-GRID PRODUCTS

- Low cost and quick installation, no trenching, cabling or wiring required
- IP68 Certified (AS/NZS 60529:2004 IPx8, IP4x, IP6x) submersible to 3m+ depth
- IK10 Certified (IEC 62262:2002) can withstand impact from debris and vandalism
- Isolated from power outages for continuous illumination
- Up to 70% more autonomy than competitors at full power output dusk until dawn

From vandal attack, severe high wind events, flood disasters, monsoonal rain, crashing waves, tidal surges, golf ball size hail or just daily snow coverage, no similar product will out perform the IK10 impact resistant construction of the SBL2, making it the perfect asset for durability and continuous performance at full power dusk until dawn operation 365 days of the year in high risk or heavily shaded areas where continuous lighting is required.

## TECHNICAL SPECIFICATIONS

### Overview

- **Dome Material** — SABIC SLX LEXAN (Highest UV Stabilised PC available)
- **Housing Material** — SABIC LEXAN 203R (UV Stabilised)
- **Internal Materials** — STAREX ASA
- **External Reflector** — Stainless Steel Powder Coated (Optional)
- **LED Chips** — 8 x 5mm Piranha LED Super Bright
  - Asymmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
  - Symmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
- **Voltage** — 3.2V (ELV intrinsically safe no UL certification required for USA)
- **Operate Temp** — -30°C ~ +60°C ambient (runs safely up to 100°C)
- **Maintenance** — Annual clean and polish for peak performance
- **Warranty** — 10 Years (subject to SBL Warranty T&C's)
- **Certifications**
  – IP68 OFFICIALLY TESTED (AS/NZS 60529:2004 IPx8, IP4x, IP6x)
  – IK10 OFFICIALLY TESTED (IEC 62262:2002)
  – Photometric (IESNA LM-79-08)
  – Hazardous Area/CE/RCM (T.B.T)
- **Weight** — Net Weight 3kg (6.6lbs) / SR 4.5kg (9.9lbs)

### Solar Module

- **Wattage** — 5w Mono-Crystalline
- **Vmp (V)** — 5V
- **Imp (A)** — 1 Amp
- **Design Life** — 10 Years @ 100%

### Battery

- **Type** — 3.2V 17Ah Cylindrical LiFePo4
- **Cycles** — 3700 (expected minimum)
- **Design Life** — 10 Years + (expected minimum)

### Electronics

RoHS compliant

- **Design Life** — 10 Years + (expected minimum)
- **Runtime** — Dusk until Dawn full power
- **On/Off** — Solar Panel Voltage

### Poles (25um anodised standard or powder coated)

- **Material** — 6106 T6 Aluminium Marine Grade
- **Grade** — High Tensile / Light Weight
- **Durability** — High Corrosion Resistance
- **Collar** — 25um Anodised
- **Hardware** — Security Bolts 4 x M6 - 316 SS

IP68 Submersible | IK10 Vandal Resistant | No Power Bills | Simple & Low Install Cost | Clean Energy Lighting | Minimal Maintenance | Install Yourself

# SBL2 Series M Model

## Solar Powered LED Bollard

## ORDER MATRIX

| Power Model | LED Configuration | Mount Code | Dimension | Installed Height with Light Attached | Pole Finish Options |
|---|---|---|---|---|---|
| 040 - 40mA | ANW | -130PM | 130mm/5.1” | 290mm / 11.4” | **A** - 25um Anodised - Clear (Silver Colour) |
| 080 - 80mA | SNW | -142BP | 142mm/5.6” | 302mm / 11.9” | **AB** - 25um Anodised - Ebony (Near Black) + |
| 120 - 120mA | AWW | -450BPT | 450mm/17.7” | 610mm / 24” | **PC** - Black Satin 27219268 (Default Colour) |
| 160 - 160mA | SWW | -840BP | 840mm/33” | 1000mm / 39.4” | **PCCC** - Custom Powder Coat Colour + From Dulux DURALLOY or ALPHATEC Colour Range (under 15 poles $200 Minium Charge Loading Added on top of total cost) |
| 200 - 200mA | | -1340BP | 1340mm/53” | 1500mm / 59” | |
| 240 - 240mA | **LED DESCRIPTION** **ANW** - Asymmetrical (180°) 4300K +/- LED **SNW** - Symmetrical (360°) 4300K +/- LED **AWW** - Asymmetrical (180°) 3000K +/- LED **SWW** - Symmetrical (360°) 3000K +/- LED | -1840BP | 1840mm/79” | 2000mm / 79” | + Special Order Option with longer lead time |
| 280 - 280mA | | -2240BPT | 2240mm/88.2” | 2400mm / 94.5” | **MOUNTING CODE DESCRIPTION** **PM** - Wall Mount Bracket **BP** - Base Plate **BPT** - TMR Pole Design for Pontoons and Floating Walkways |
| | | -2340BP | 2340mm/92” | 2500mm / 98.4” | |
| | | -2840BP | 2840mm/111.8” | 3000mm / 118” | |
| | | -3340BP | 3340mm/44.9” | 3500mm / 138” | SR - for adding on reflector to light heads |
| | | -3840BP | 3840mm/151.2” | 4000mm / 157.5” | |

Ordering Example :

**SBL2-**160ANW-SR-130PMA = 160mA Asymmetrical Natural White Light with SR Reflector on 130mm 25um Anodised Pylon Mount

| | Power Model | LED | | Reflector | | Mount Code | Pole Finish Option |
|---|---|---|---|---|---|---|---|
| SBL2- | | | - | | - | | |

**Notes:**
- Specifications subject to change without notice
- All light levels in lux

# SBL2 Series M Model

## Solar Powered LED Bollard

# ASYMMETRICAL ISOLUX EXAMPLES

4300K +/- 300K LED - GRID = 10m / 32.8’ x 10m / 32.8’ All Values = Lux @ 1m / 40” Overall Height

SBL2-040ANW

SBL2-080ANW

SBL2-120ANW

SBL2-160ANW

SBL2-200ANW

SBL2-240ANW

GRID = 20m / 65.61’ x 5m / 16.4’ All Values = Lux @ 3m / 9.84’ Overall Height

SBL2-040ANW-SR

SBL2-080ANW-SR

SBL2-120ANW-SR

SBL2-160ANW-SR

SBL2-200ANW-SR

SBL2-240ANW-SR

SBL2-280ANW-SR

# SBL2 Series SR Model

The 3rd generation SBL2 SR Model solar powered bollard light was specifically designed to be capable for submersion (IP68) for lighting Pathways, Driveways, Laneways, Stairways in locations where cyclones-hurricanes-typhoons, tidal surges, tsunamis, and generalised flooding is prominent and with specific power models designed for locations that are fully shaded throughout the day with only ambient irradiation available to recharge fully each day.

### KEY FEATURES OF THE SBL2 OVER COMPETITORS & ON-GRID PRODUCTS

- Low cost and quick installation, no trenching, cabling or wiring required
- IP68 Certified (AS/NZS 60529:2004 IPx8, IP4x, IP6x) submersible to 3m+ depth
- IK10 Certified (IEC 62262:2002) can withstand impact from debris and vandalism
- Isolated from power outages for continuous illumination
- Up to 70% more autonomy than competitors at full power output dusk until dawn

From vandal attack, severe high wind events, flood disasters, monsoonal rain, crashing waves, tidal surges, golf ball size hail or just daily snow coverage, no similar product will out perform the IK10 impact resistant construction of the SBL2, making it the perfect asset for durability and continuous performance at full power dusk until dawn operation 365 days of the year in high risk or heavily shaded areas where continuous lighting is required.

## TECHNICAL SPECIFICATIONS

### Overview

- **Dome Material** — SABIC SLX LEXAN (Highest UV Stabilised PC available)
- **Housing Material** — SABIC LEXAN 203R (UV Stabilised)
- **Internal Materials** — STAREX ASA
- **External Reflector** — Stainless Steel powder coated
- **LED Chips** — 8 x 5mm Piranha LED Super Bright
  - Asymmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
  - Symmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
- **Voltage** — 3.2V (ELV intrinsically safe no UL certification required for USA)
- **Operate Temp** — -30°C ~ +60°C ambient (runs safely up to 100°C)
- **Maintenance** — Annual clean and polish for peak performance
- **Warranty** — 10 Years (subject to SBL Warranty T&C's)
- **Certifications**
  – IP68 OFFICIALLY TESTED (AS/NZS 60529:2004 IPx8, IP4x, IP6x)
  – IK10 OFFICIALLY TESTED (IEC 62262:2002)
  – Photometric (IESNA LM-79-08)
  – Hazardous Area/CE/RCM (T.B.T)
- **Weight** — Net Weight 3kg (6.6lbs) / SR 4.5kg (9.9lbs)

### Solar Module

- **Wattage** — 5w Mono-Crystalline
- **Vmp (V)** — 5V
- **Imp (A)** — 1 Amp
- **Design Life** — 10 Years @ 100%

### Battery

- **Type** — 3.2V 17Ah Cylindrical LiFePo4
- **Cycles** — 3700 (expected minimum)
- **Design Life** — 10 Years + (expected minimum)

### Electronics

RoHS compliant

- **Design Life** — 10 Years + (expected minimum)
- **Runtime** — Dusk until Dawn full power
- **On/Off** — Solar Panel Voltage

### Poles (25um anodised standard or powder coated)

- **Material** — 6106 T6 Aluminium Marine Grade
- **Grade** — High Tensile / Light Weight
- **Durability** — High Corrosion Resistance
- **Collar** — 25um Anodised
- **Hardware** — Security Bolts 4 x M6 - 316 SS

IP68 Submersible | IK10 Vandal Resistant | No Power Bills | Simple & Low Install Cost | Clean Energy Lighting | Minimal Maintenance | Install Yourself

# SBL2 Series SR Model

## Solar Powered LED Bollard

# ORDER MATRIX

| Power Model | LED Configuration | Mount Code | Dimension | Installed Height with Light Attached | Pole Finish Options |
|---|---|---|---|---|---|
| 040 - 40mA | ANW | -130WM | 130mm/5.1" | 290mm / 11.4" | **A** - 25um Anodised - Clear (Silver Colour) |
| 080 - 80mA | SNW | -142BP | 142mm/5.6" | 302mm / 11.9" | **AB** - 25um Anodised - Ebony (Near Black) + |
| 120 - 120mA | AWW | -840BP | 840mm/33" | 1000mm / 39.4" | **PC** - Black Satin 27219268 (Default Colour) |
| 160 - 160mA | SWW | -1140DB | 1140mm/44.9" | 1000mm / 39.4" | **PCCC** - Custom Powder Coat Colour + From Dulux DURALLOY or ALPHATEC Colour Range (under 15 poles $200 Minium Charge Loading Added on top of total cost) |
| 200 - 200mA | | -1340BP | 1340mm/53" | 1500mm / 59" | |
| 240 - 240mA | | -1790DB | 1790mm/70.4" | 1500mm / 59" | + Special Order Option with longer lead time |
| 280 - 280mA | | -1840BP | 1840mm/79" | 2000mm / 79" | |
| | | -2440DB | 2440mm/96.5" | 2000mm / 79" | |
| | | -2340BP | 2340mm/92" | 2500mm / 98.4" | |
| | | -3040DB | 3040mm/118.8" | 2500mm / 98.4" | |
| | | -2840BP | 2840mm/111.8" | 3000mm / 118" | |
| | | -3640DB | 3640mm/143" | 3000mm / 118" | |

**LED DESCRIPTION**
**ANW** - Asymmetrical (180°) 4300K +/- LED
**SNW** - Symmetrical (360°) 4300K +/- LED
**AWW** - Asymmetrical (180°) 3000K +/- LED
**SWW** - Symmetrical (360°) 3000K +/- LED

**MOUNTING CODE DESCRIPTION**
**WM** - Wall Mount Bracket
**DB** - Direct Bury
**BP** - Base Plate

Ordering Example :
**SBL2**-160ANW-**SR**-3640DBPC = 160mA Asymmetrical Natural White Light with SR Reflector on 3640mm Black Powder Coated Direct Bury Pole

| | Power Model | LED | | Reflector | | Mount Code | Pole Finish Option |
|---|---|---|---|---|---|---|---|
| SBL2- | | | - | SR | - | | |

**Notes:**
- Specifications subject to change without notice
- All light levels in lux

# SBL2 Series SR Model

## Solar Powered LED Bollard

**GRID = 20m / 65.61’ x 5m / 16.4’**
**All Values = Lux @ 3m / 9.84’ Overall Height**

## ISOLUX
(IES files available)

SBL2-040ANW-SR

SBL2-080ANW-SR

SBL2-120ANW-SR

SBL2-160ANW-SR

SBL2-200ANW-SR

SBL2-240ANW-SR

SBL2-280ANW-SR

# SBL2 Series 2OH Model

## Solar Powered LED Bollard

The 3rd generation SBL2 2OH Model solar powered bollard light was specifically designed to be capable for submersion (IP68) for overhead lighting Pathways, Bikeways, Minor Roads, Laneways, in locations where cyclones-hurricanes-typhoons, tidal surges, tsunamis, and generalised flooding is prominent and with specific power models designed for locations that are fully shaded throughout the day with only ambient irradiation available to fully recharge daily.

### KEY FEATURES OF THE SBL2 OVER COMPETITORS & ON-GRID PRODUCTS

- Low cost and quick installation, no trenching, cabling or wiring required
- IP68 Certified (AS/NZS 60529:2004 IPx8, IP4x, IP6x) submersible to 3m depth
- IK10 Certified (IEC 62262:2002) can withstand impact from debris and vandalism
- Isolated from power outages for continuous illumination
- Up to 70% more autonomy than competitors at full power output dusk until dawn

From vandal attack, severe high wind events, flood disasters, monsoonal rain, crashing waves, tidal surges, golf ball size hail or just daily snow coverage, no similar product will out perform the IK10 impact resistant construction of the SBL2 2OH, making it the perfect asset for durability and continuous performance at full power dusk until dawn operation 365 days of the year in high risk or heavily shaded areas where continuous lighting is required.

## TECHNICAL SPECIFICATIONS

### Overview

- **Dome Material** — SABIC SLX LEXAN (Highest UV Stabilised PC available)
- **Housing Material** — SABIC LEXAN 203R (UV Stabilised)
- **Internal Materials** — STAREX ASA
- **External Reflector** — Stainless Steel Powder Coated (Optional)
- **LED Chips** — 8 x 5mm Piranha LED Super Bright
  - Asymmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
  - Symmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
- **Voltage** — 3.2V (ELV intrinsically safe no UL certification required for USA)
- **Operate Temp** — -30°C ~ +60°C ambient (runs safely up to 100°C)
- **Maintenance** — Annual clean and polish for peak performance
- **Warranty** — 10 Years (subject to SBL Warranty T&C's)
- **Certifications**
  - IP68 OFFICIALLY TESTED (AS/NZS 60529:2004 IPx8, IP4x, IP6x)
  - IK10 OFFICIALLY TESTED (IEC 62262:2002)
  - Photometric (IESNA LM-79-08)
  - Hazardous Area/CE/RCM (T.B.T)
- **Weight** — Net Weight 3kg (6.6lbs) / SR 4.5kg (9.9lbs)

### Solar Module

- **Wattage** — 5w Mono-Crystalline
- **Vmp (V)** — 5V
- **Imp (A)** — 1 Amp
- **Design Life** — 10 Years @ 100%

### Battery

- **Type** — 3.2V 17Ah Cylindrical LiFePo4
- **Cycles** — 3700 (expected minimum)
- **Design Life** — 10 Years + (expected minimum)

### Electronics

RoHS compliant

- **Design Life** — 10 Years + (expected minimum)
- **Runtime** — Dusk until Dawn full power
- **On/Off** — Solar Panel Voltage

### Poles (25um anodised standard or powder coated)

- **Material** — 6106 T6 Aluminium Marine Grade
- **Grade** — High Tensile / Light Weight
- **Durability** — High Corrosion Resistance
- **Collar** — 25um Anodised
- **Hardware** — Security Bolts 4 x M6 - 316 SS

IP68 Submersible | IK10 Vandal Resistant | No Power Bills | Simple & Low Install Cost | Clean Energy Lighting | Minimal Maintenance | Install Yourself

# SBL2 Series 2OH Model

## Solar Powered LED Bollard

## ORDER MATRIX

| Power Model | LED Configuration | Mount Code | Dimension | Installed Height with Light Attached | Pole Finish Options |
|---|---|---|---|---|---|
| 040 - 40mA | ANW | -23402BP | 2340mm/92” | 2500mm / 98.4” | **A** - 25um Anodised - Clear (Silver Colour) |
| 080 - 80mA | SNW | -30402BP | 3040mm/118.8” | 2500mm / 98.4” | **AB** - 25um Anodised - Ebony (Near Black) + |
| 120 - 120mA | AWW | -28402BP | 2840mm/111.8” | 3000mm / 118” | **PC** - Black Satin 27219268 (Default Colour) |
| 160 - 160mA | SWW | -33402BP | 3340mm/44.9” | 3500mm / 138” | **PCCC** - Custom Powder Coat Colour + From Dulux DURALLOY or ALPHATEC Colour Range (under 15 poles $200 Minium Charge Loading Added on top of total cost) |
| 200 - 200mA | **LED DESCRIPTION** **ANW** - Asymmetrical (180°) 4300K +/- LED **SNW** - Symmetrical (360°) 4300K +/- LED **AWW** - Asymmetrical (180°) 3000K +/- LED **SWW** - Symmetrical (360°) 3000K +/- LED | -38402BP | 3840mm/151.2” | 4000mm / 157.5” | |
| 240 - 240mA | | -43402BP | 4340mm/170.9” | 4500mm / 177” | + Special Order Option with longer lead time |
| 280 - 280mA | | **MOUNTING CODE DESCRIPTION** **2BP** - Base Plate | | | |
| | | **SR** - for adding on reflector to light heads | | | |

Ordering Example :
**SBL2**-200ANW-**SR**-33402BPPC = Dual Light 200mA Asymmetrical Natural White Light with SR Reflector on 3340mm Black Powder Coated Base Plate Pole

| | Power Model | LED | | Reflector | | Mount Code | Pole Finish Option |
|---|---|---|---|---|---|---|---|
| SBL2- | | | - | | - | | |

**Notes:**
- Specifications subject to change without notice
- All light levels in lux

# SBL2 Series 2OH Model

## Solar Powered LED Bollard

**GRID = 20m / 65.61’ x 5m / 16.4’**
**All Values = Lux**

## ISOLUX
(IES files available)

**SBL2-040ANW-SR2 @ 3.0m / 9.84’**

**SBL2-080ANW-SR2 @ 3.0m / 9.84’**

**SBL2-120ANW-SR2 @ 3.5m / 11.48’**

**SBL2-160ANW-SR2 @ 3.5m / 11.48’**

**SBL2-200ANW-SR2 @ 3.5m / 11.48’**

**SBL2-240ANW-SR2 @ 3.5m / 11.48’**

**SBL2-280ANW-SR2 @ 3.5m / 11.48’**

# SBL2 Series 3OH Model

## Solar Powered LED Bollard

The 3rd generation SBL2 3OH Model solar powered bollard light was specifically designed to be capable for submersion (IP68) for overhead lighting Pathways, Bikeways, Minor Roads, Laneways, in locations where cyclones-hurricanes-typhoons, tidal surges, tsunamis, and generalised flooding is prominent and with specific power models designed for locations that are fully shaded throughout the day with only ambient irradiation available to fully recharge daily.

### KEY FEATURES OF THE SBL2 OVER COMPETITORS & ON-GRID PRODUCTS

- Low cost and quick installation, no trenching, cabling or wiring required
- IP68 Certified (AS/NZS 60529:2004 IPx8, IP4x, IP6x) submersible to 3m depth
- IK10 Certified (IEC 62262:2002) can withstand impact from debris and vandalism
- Isolated from power outages for continuous illumination
- Up to 70% more autonomy than competitors at full power output dusk until dawn

From vandal attack, severe high wind events, flood disasters, monsoonal rain, crashing waves, tidal surges, golf ball size hail or just daily snow coverage, no similar product will out perform the IK10 impact resistant construction of the SBL2 3OH, making it the perfect asset for durability and continuous performance at full power dusk until dawn operation 365 days of the year in high risk or heavily shaded areas where continuous lighting is required.

## TECHNICAL SPECIFICATIONS

### Overview

| | |
|---|---|
| **Dome Material** | SABIC SLX LEXAN (Highest UV Stabilised PC available) |
| **Housing Material** | SABIC LEXAN 203R (UV Stabilised) |
| **Internal Materials** | STAREX ASA |
| **External Reflector** | Stainless Steel Powder Coated (Optional) |
| **LED Chips** | 8 x 5mm Piranha LED Super Bright<br>- Asymmetrical Light Distribution<br>4300K +/- (Natural White) / 3000K (Warm White)<br>- Symmetrical Light Distribution<br>4300K +/- (Natural White) / 3000K (Warm White) |
| **Voltage** | 3.2V (ELV intrinsically safe no UL certification required for USA) |
| **Operate Temp** | -30°C ~ +60°C ambient (runs safely up to 100°C) |
| **Maintenance** | Annual clean and polish for peak performance |
| **Warranty** | 10 Years (subject to SBL Warranty T&C's) |
| **Certifications** | – IP68 OFFICIALLY TESTED (AS/NZS 60529:2004 IPx8, IP4x, IP6x)<br>– IK10 OFFICIALLY TESTED (IEC 62262:2002)<br>– Photometric (IESNA LM-79-08)<br>– Hazardous Area/CE/RCM (T.B.T) |
| **Weight** | Net Weight 3kg (6.6lbs) / SR 4.5kg (9.9lbs) |

### Solar Module

| | |
|---|---|
| **Wattage** | 5w Mono-Crystalline |
| **Vmp (V)** | 5V |
| **Imp (A)** | 1 Amp |
| **Design Life** | 10 Years @ 100% |

### Battery

| | |
|---|---|
| **Type** | 3.2V 17Ah Cylindrical LiFePo4 |
| **Cycles** | 3700 (expected minimum) |
| **Design Life** | 10 Years + (expected minimum) |

### Electronics

RoHS compliant

| | |
|---|---|
| **Design Life** | 10 Years + (expected minimum) |
| **Runtime** | Dusk until Dawn full power |
| **On/Off** | Solar Panel Voltage |

### Poles (25um anodised standard or powder coated)

| | |
|---|---|
| **Material** | 6106 T6 Aluminium Marine Grade |
| **Grade** | High Tensile / Light Weight |
| **Durability** | High Corrosion Resistance |
| **Collar** | 25um Anodised |
| **Hardware** | Security Bolts 4 x M6 - 316 SS |

IP68 Submersible | IK10 Vandal Resistant | No Power Bills | Simple & Low Install Cost | Clean Energy Lighting | Minimal Maintenance | Install Yourself

# SBL2 Series 3OH Model

## Solar Powered LED Bollard

## PHOTOMETRIC (IES files available)

GRID = 20m / 65.61’ x 5m / 16.4’ All Values = Lux

SBL2-160ANW-3OH @ 3.5m / 11.48’

SBL2-200ANW-3OH @ 3.5m / 11.48’

SBL2-240ANW-3OH @ 3.5m / 11.48’

SBL2-280ANW-3OH @ 3.5m / 11.48’

## ORDER MATRIX

| Power Model | LED Configuration | Mount Code | Dimension | Installed Height with Light Attached | Pole Finish Options |
|---|---|---|---|---|---|
| 040 - 40mA | ANW | -23403BP | 2340mm/92” | 2500mm / 98.4” | **A** - 25um Anodised - Clear (Silver Colour) |
| 080 - 80mA | SNW | -30403BP | 3040mm/118.8” | 2500mm / 98.4” | **AB** - 25um Anodised - Ebony (Near Black) + |
| 120 - 120mA | AWW | -28403BP | 2840mm/111.8” | 3000mm / 118” | **PC** - Black Satin 27219268 (Default Colour) |
| 160 - 160mA | SWW | -33403BP | 3340mm/44.9” | 3500mm / 138” | **PCCC** - Custom Powder Coat Colour + From Dulux DURALLOY or ALPHATEC Colour Range (under 15 poles $200 Minium Charge Loading Added on top of total cost) |
| 200 - 200mA | **LED DESCRIPTION** **ANW** - Asymmetrical (180°) 4300K +/- LED **SNW** - Symmetrical (360°) 4300K +/- LED **AWW** - Asymmetrical (180°) 3000K +/- LED **SWW** - Symmetrical (360°) 3000K +/- LED | -38403BP | 3840mm/151.2” | 4000mm / 157.5” | |
| 240 - 240mA | | -43403BP | 4340mm/170.9” | 4500mm / 177” | + Special Order Option with longer lead time |
| 280 - 280mA | | **MOUNTING CODE DESCRIPTION** **2BP** - Base Plate | | | |
| | | **SR** - for adding on reflector to light heads | | | |

Ordering Example :

**SBL2**-200ANW-**SR**-33403BPPC = Triple Light 200mA Asymmetrical Natural White Light with SR Reflector on 3340mm Black Powder Coated Base Plate Pole

| | Power Model | LED | | Reflector | | Mount Code | Pole Finish Option |
|---|---|---|---|---|---|---|---|
| SBL2- | | | - | | - | | |

**Notes:**
- Specifications subject to change without notice
- All light levels in lux

# SBL2 Series 4OH Model

## Solar Powered LED Bollard

The 3rd generation SBL2 4OH Model solar powered bollard light was specifically designed to be capable for submersion (IP68) for overhead area lighting parks, playgrounds, court yards, bbq areas in locations where cyclones-hurricanes-typhoons, tidal surges, tsunamis, and generalised flooding is prominent and with specific power models designed for locations that are fully shaded throughout the day with only ambient irradiation available to fully recharge daily.

### KEY FEATURES OF THE SBL2 OVER COMPETITORS & ON-GRID PRODUCTS

- Low cost and quick installation, no trenching, cabling or wiring required
- IP68 Certified (AS/NZS 60529:2004 IPx8, IP4x, IP6x) submersible to 3m depth
- IK10 Certified (IEC 62262:2002) can withstand impact from debris and vandalism
- Isolated from power outages for continuous illumination
- Up to 70% more autonomy than competitors at full power output dusk until dawn

From vandal attack, severe high wind events, flood disasters, monsoonal rain, crashing waves, tidal surges, golf ball size hail or just daily snow coverage, no similar product will out perform the IK10 impact resistant construction of the SBL2 4OH, making it the perfect asset for durability and continuous performance at full power dusk until dawn operation 365 days of the year in high risk or heavily shaded areas where continuous lighting is required.

## TECHNICAL SPECIFICATIONS

### Overview

- **Dome Material** — SABIC SLX LEXAN (Highest UV Stabilised PC available)
- **Housing Material** — SABIC LEXAN 203R (UV Stabilised)
- **Internal Materials** — STAREX ASA
- **External Reflector** — Stainless Steel Powder Coated (Optional)
- **LED Chips** — 8 x 5mm Piranha LED Super Bright
  - Asymmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
  - Symmetrical Light Distribution
    4300K +/- (Natural White) / 3000K (Warm White)
- **Voltage** — 3.2V (ELV intrinsically safe no UL certification required for USA)
- **Operate Temp** — -30°C ~ +60°C ambient (runs safely up to 100°C)
- **Maintenance** — Annual clean and polish for peak performance
- **Warranty** — 10 Years (subject to SBL Warranty T&C's)
- **Certifications**
  - IP68 OFFICIALLY TESTED (AS/NZS 60529:2004 IPx8, IP4x, IP6x)
  - IK10 OFFICIALLY TESTED (IEC 62262:2002)
  - Photometric (IESNA LM-79-08)
  - Hazardous Area/CE/RCM (T.B.T)
- **Weight** — Net Weight 3kg (6.6lbs) / SR 4.5kg (9.9lbs)

### Solar Module

- **Wattage** — 5w Mono-Crystalline
- **Vmp (V)** — 5V
- **Imp (A)** — 1 Amp
- **Design Life** — 10 Years @ 100%

### Battery

- **Type** — 3.2V 17Ah Cylindrical LiFePo4
- **Cycles** — 3700 (expected minimum)
- **Design Life** — 10 Years + (expected minimum)

### Electronics

RoHS compliant

- **Design Life** — 10 Years + (expected minimum)
- **Runtime** — Dusk until Dawn full power
- **On/Off** — Solar Panel Voltage

### Poles (25um anodised standard or powder coated)

- **Material** — 6106 T6 Aluminium Marine Grade
- **Grade** — High Tensile / Light Weight
- **Durability** — High Corrosion Resistance
- **Collar** — 25um Anodised
- **Hardware** — Security Bolts 4 x M6 - 316 SS

IP68 Submersible | IK10 Vandal Resistant | No Power Bills | Simple & Low Install Cost | Clean Energy Lighting | Minimal Maintenance | Install Yourself

# SBL2 Series 4OH Model

## PHOTOMETRIC (IES files available)

GRID = 20m x 20m (65.62ft x 65.62ft) All Values = Lux

**SBL2-120ANW-SR @ 3.0m / 9.84ft**

**SBL2-160ANW-SR @ 3.5m / 11.48ft**

**SBL2-200ANW-SR @ 3.5m / 11.48ft**

**SBL2-240ANW-SR @ 3.5m / 11.48ft**

## ORDER MATRIX

| Power Model | LED Configuration | Mount Code | Dimension | Installed Height with Light Attached | Pole Finish Options |
|---|---|---|---|---|---|
| 040 - 40mA | ANW | -23404BP | 2340mm/92” | 2500mm / 98.4” | **A** - 25um Anodised - Clear (Silver Colour) |
| 080 - 80mA | SNW | -30404BP | 3040mm/118.8” | 2500mm / 98.4” | **AB** - 25um Anodised - Ebony (Near Black) + |
| 120 - 120mA | AWW | -28404BP | 2840mm/111.8” | 3000mm / 118” | **PC** - Black Satin 27219268 (Default Colour) |
| 160 - 160mA | SWW | -33404BP | 3340mm/44.9” | 3500mm / 138” | **PCCC** - Custom Powder Coat Colour + From Dulux DURALLOY or ALPHATEC Colour Range (under 15 poles $200 Minium Charge Loading Added on top of total cost) |
| 200 - 200mA | **LED DESCRIPTION** **ANW** - Asymmetrical (180°) 4300K +/- LED **SNW** - Symmetrical (360°) 4300K +/- LED **AWW** - Asymmetrical (180°) 3000K +/- LED **SWW** - Symmetrical (360°) 3000K +/- LED | -38404BP | 3840mm/151.2” | 4000mm / 157.5” | |
| 240 - 240mA | | -43404BP | 4340mm/170.9” | 4500mm / 177” | + Special Order Option with longer lead time |
| 280 - 280mA | | **MOUNTING CODE DESCRIPTION** **4BP** - Base Plate | | | |
| | | **SR** - for adding on reflector to light heads | | | |

Ordering Example :

**SBL2**-200ANW-**SR**-33404BPPC = Quad Light 200mA Asymmetrical Natural White Light with SR Reflector on 3340mm Black Powder Coated Base Plate Pole

| | Power Model | LED | | Reflector | | Mount Code | Pole Finish Option |
|---|---|---|---|---|---|---|---|
| SBL2- | | | - | | - | | |

**Notes:**
- Specifications subject to change without notice
- All light levels in lux