



**SolarForm Gen 3 Off-Grid** is an integrated solar lighting solution designed to provide high-quality illumination and reliable performance in remote or power-scarce environments or when trenching is not possible. It features an LED light integrated with a solar photovoltaic panel and a robust battery storage system, managed by a smart controller to maximize efficiency. This system is engineered to ensure continuous illumination solely based on solar power, tailored to local solar conditions and night-time activities. It includes enhanced battery capacity to maintain consistent lighting throughout the night, eliminating any dependency on grid connectivity. This makes it ideal for areas where grid electricity is unavailable, unreliable, or costly.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Ordering guide<sup>1</sup>

Example: VGP726 LED30/730 OG-BLE DM32 III GR

| Catalog Code                         | Net Lumen Output <sup>2</sup> | CRI | LED Color <sup>3</sup> | Distribution  | Housing Finish <sup>4</sup> |
|--------------------------------------|-------------------------------|-----|------------------------|---------------|-----------------------------|
| VGP726 LED30/730 OG-BLE DM32 III GR  | 1,927                         | 70  | 3000K                  | Type 2 Short  | Gray                        |
| VGP726 LED40/740 OG-BLE DN11 III GR  | 3,161                         | 70  | 4000K                  | Type 2 Medium | Gray                        |
| VGP726 LED50/730 OG-BLE DW10 III GR  | 3,901                         | 70  | 3000K                  | Type 3 Short  | Gray                        |
| VGP726 LED60/740 OG-BLE DW50 III GR  | 4,806                         | 70  | 4000K                  | Type 3 Medium | Gray                        |
| VGP726 LED70/730 OG-BLE DX52 III GR  | 5,491                         | 70  | 3000K                  | Type 4        | Gray                        |
| VGP726 LED80/740 OG-BLE DS50 III GR  | 6,974                         | 70  | 4000K                  | Type 5        | Gray                        |
| VGP726 LED90/730 OG-BLE DX52 III GR  | 7,527                         | 70  | 3000K                  | Type 4        | Gray                        |
| VGP726 LED100/740 OG-BLE DS50 III GR | 8,649                         | 70  | 4000K                  | Type 5        | Gray                        |

- For other options, check page 8 and contact factory for full choicesheet
- Full lumen output table in page 3 and 4
- 1800K, 2200K and 5700K available upon request
- Other finishes available upon request

### Motion Sensor

| 12NC         | Description                    |
|--------------|--------------------------------|
| 913701057803 | LRI8135/00 Outdoor Multisensor |

### Vertical Pole-Wrap Panel

| 12NC         | Description                              |
|--------------|------------------------------------------|
| 911401822202 | 200Wp Vertical Panel Subsystem Vmpp 36V  |
| 912300058711 | Installation KIT Vertical PV Panel 200Wp |

# SolarForm Gen 3

## Off-grid luminaire



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### Predicted Lumen Depreciation Data

Derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-21.

| Ambient Temperature °C | L70 per TM-21  | Lumen Maintenance % at 60,000 hrs |
|------------------------|----------------|-----------------------------------|
| 25°C                   | >100,000 hours | >97%                              |

### Power and Lumen Maintenance

| Ordering Code | Average System Watts (W) |
|---------------|--------------------------|
| VGP726 LED30  | 11                       |
| VGP726 LED40  | 19                       |
| VGP726 LED50  | 25                       |
| VGP726 LED60  | 29                       |
| VGP726 LED70  | 35                       |
| VGP726 LED80  | 43                       |
| VGP726 LED90  | 49                       |
| VGP726 LED100 | 55                       |

### LED Lumen Values

#### 4000K, 70CRI LED Lumen Values

| Ordering Code     | DM32: Type 2 Short |                |            | DN11: Type 2 Medium |                |            | DW10: Type 3 Short |                |            |
|-------------------|--------------------|----------------|------------|---------------------|----------------|------------|--------------------|----------------|------------|
|                   | Lumen Output       | Efficacy (LPW) | BUG Rating | Lumen Output        | Efficacy (LPW) | BUG Rating | Lumen Output       | Efficacy (LPW) | BUG Rating |
| VGP726 LED30 740  | 2029               | 180            | B1-U0-G0   | 1992                | 176            | B1-U0-G1   | 2023               | 179            | B1-U0-G1   |
| VGP726 LED40 740  | 3219               | 169            | B1-U0-G1   | 3161                | 166            | B1-U0-G1   | 3209               | 169            | B1-U0-G1   |
| VGP726 LED50 740  | 4120               | 165            | B1-U0-G1   | 4045                | 162            | B1-U0-G1   | 4107               | 164            | B1-U0-G1   |
| VGP726 LED60 740  | 5021               | 174            | B1-U0-G1   | 4931                | 171            | B1-U0-G1   | 5006               | 174            | B1-U0-G1   |
| VGP726 LED70 740  | 5910               | 171            | B1-U0-G1   | 5803                | 168            | B2-U0-G1   | 5893               | 171            | B1-U0-G1   |
| VGP726 LED80 740  | 7230               | 167            | B1-U0-G1   | 7100                | 164            | B2-U0-G1   | 7209               | 167            | B2-U0-G1   |
| VGP726 LED90 740  | 8101               | 164            | B2-U0-G1   | 7955                | 161            | B2-U0-G2   | 8077               | 164            | B2-U0-G1   |
| VGP726 LED100 740 | 8966               | 162            | B2-U0-G2   | 8804                | 159            | B2-U0-G2   | 8939               | 161            | B2-U0-G2   |

#### 4000K, 70CRI (cont'd)

| Ordering Code     | DW50: Type 3 Medium |                |            | DN25: Type 3 Medium High Tilt |                |            | DX52: Type 4 |                |            | DS50: Type 5 |                |            |
|-------------------|---------------------|----------------|------------|-------------------------------|----------------|------------|--------------|----------------|------------|--------------|----------------|------------|
|                   | Lumen Output        | Efficacy (LPW) | BUG Rating | Lumen Output                  | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating |
| VGP726 LED30 740  | 1942                | 172            | B1-U0-G1   | 2004                          | 177            | B1-U0-G1   | 1985         | 176            | B1-U0-G1   | 1957         | 173            | B1-U0-G1   |
| VGP726 LED40 740  | 3081                | 162            | B1-U0-G1   | 3180                          | 167            | B1-U0-G1   | 3148         | 166            | B1-U0-G1   | 3105         | 163            | B2-U0-G1   |
| VGP726 LED50 740  | 3943                | 158            | B1-U0-G1   | 4070                          | 163            | B1-U0-G1   | 4030         | 161            | B1-U0-G1   | 3974         | 159            | B2-U0-G1   |
| VGP726 LED60 740  | 4806                | 167            | B2-U0-G2   | 4960                          | 172            | B1-U0-G1   | 4912         | 171            | B1-U0-G1   | 4844         | 168            | B3-U0-G1   |
| VGP726 LED70 740  | 5657                | 164            | B2-U0-G2   | 5838                          | 169            | B2-U0-G1   | 5781         | 168            | B2-U0-G1   | 5701         | 165            | B3-U0-G1   |
| VGP726 LED80 740  | 6920                | 160            | B2-U0-G2   | 7142                          | 165            | B2-U0-G1   | 7072         | 163            | B2-U0-G2   | 6974         | 161            | B3-U0-G2   |
| VGP726 LED90 740  | 7754                | 157            | B2-U0-G2   | 8003                          | 162            | B2-U0-G1   | 7925         | 161            | B2-U0-G2   | 7815         | 159            | B3-U0-G2   |
| VGP726 LED100 740 | 8582                | 155            | B2-U0-G2   | 8857                          | 160            | B2-U0-G2   | 8770         | 158            | B2-U0-G2   | 8649         | 156            | B3-U0-G2   |

# SolarForm Gen 3

## Off-grid luminaire

### LED Lumen Values

#### 3000K, 70CRI

| Ordering Code     | DM32: Type 2 Short |                |            | DN11: Type 2 Medium |                |            | DW10: Type 3 Short |                |            |
|-------------------|--------------------|----------------|------------|---------------------|----------------|------------|--------------------|----------------|------------|
|                   | Lumen Output       | Efficacy (LPW) | BUG Rating | Lumen Output        | Efficacy (LPW) | BUG Rating | Lumen Output       | Efficacy (LPW) | BUG Rating |
| VGP726 LED30 730  | 1927               | 171            | B1-U0-G0   | 1892                | 167            | B1-U0-G1   | 1921               | 170            | B1-U0-G1   |
| VGP726 LED40 730  | 3057               | 161            | B1-U0-G1   | 3002                | 158            | B1-U0-G1   | 3048               | 160            | B1-U0-G1   |
| VGP726 LED50 730  | 3913               | 157            | B1-U0-G1   | 3842                | 154            | B1-U0-G1   | 3901               | 156            | B1-U0-G1   |
| VGP726 LED60 730  | 4769               | 166            | B1-U0-G1   | 4683                | 163            | B1-U0-G1   | 4755               | 165            | B1-U0-G1   |
| VGP726 LED70 730  | 5613               | 163            | B1-U0-G1   | 5512                | 160            | B1-U0-G1   | 5597               | 162            | B1-U0-G1   |
| VGP726 LED80 730  | 6867               | 159            | B1-U0-G1   | 6743                | 156            | B2-U0-G1   | 6847               | 158            | B2-U0-G1   |
| VGP726 LED90 730  | 7694               | 156            | B1-U0-G1   | 7555                | 153            | B2-U0-G2   | 7672               | 156            | B2-U0-G1   |
| VGP726 LED100 730 | 8516               | 154            | B2-U0-G1   | 8362                | 151            | B2-U0-G2   | 8490               | 153            | B2-U0-G2   |

#### 3000K, 70CRI (cont'd)

| Ordering Code     | DW50: Type 3 Medium |                |            | DN25: Type 3 Medium High Tilt |                |            | DX52: Type 4 |                |            | DS50: Type 5 |                |            |
|-------------------|---------------------|----------------|------------|-------------------------------|----------------|------------|--------------|----------------|------------|--------------|----------------|------------|
|                   | Lumen Output        | Efficacy (LPW) | BUG Rating | Lumen Output                  | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating |
| VGP726 LED30 730  | 1844                | 163            | B1-U0-G1   | 1903                          | 168            | B1-U0-G1   | 1885         | 167            | B1-U0-G1   | 1859         | 165            | B1-U0-G1   |
| VGP726 LED40 730  | 2926                | 154            | B1-U0-G1   | 3020                          | 159            | B1-U0-G1   | 2990         | 157            | B1-U0-G1   | 2949         | 155            | B2-U0-G1   |
| VGP726 LED50 730  | 3745                | 150            | B1-U0-G1   | 3865                          | 155            | B1-U0-G1   | 3827         | 153            | B1-U0-G1   | 3774         | 151            | B2-U0-G1   |
| VGP726 LED60 730  | 4565                | 159            | B2-U0-G2   | 4711                          | 164            | B1-U0-G1   | 4665         | 162            | B1-U0-G1   | 4600         | 160            | B3-U0-G1   |
| VGP726 LED70 730  | 5373                | 156            | B2-U0-G2   | 5545                          | 161            | B2-U0-G1   | 5491         | 159            | B2-U0-G1   | 5415         | 157            | B3-U0-G1   |
| VGP726 LED80 730  | 6573                | 152            | B2-U0-G2   | 6783                          | 157            | B2-U0-G1   | 6717         | 155            | B2-U0-G2   | 6624         | 153            | B3-U0-G1   |
| VGP726 LED90 730  | 7365                | 149            | B2-U0-G2   | 7601                          | 154            | B2-U0-G1   | 7527         | 153            | B2-U0-G2   | 7422         | 151            | B3-U0-G2   |
| VGP726 LED100 730 | 8151                | 147            | B2-U0-G2   | 8412                          | 152            | B2-U0-G1   | 8330         | 150            | B2-U0-G2   | 8214         | 148            | B3-U0-G2   |

#### 2700K, 70CRI

| Ordering Code     | DM32: Type 2 Short |                |            | DN11: Type 2 Medium |                |            | DW10: Type 3 Short |                |            |
|-------------------|--------------------|----------------|------------|---------------------|----------------|------------|--------------------|----------------|------------|
|                   | Lumen Output       | Efficacy (LPW) | BUG Rating | Lumen Output        | Efficacy (LPW) | BUG Rating | Lumen Output       | Efficacy (LPW) | BUG Rating |
| VGP726 LED30 727  | 1741               | 154            | B0-U0-G0   | 1710                | 151            | B1-U0-G1   | 1736               | 154            | B1-U0-G0   |
| VGP726 LED40 727  | 2762               | 145            | B1-U0-G1   | 2712                | 143            | B1-U0-G1   | 2754               | 145            | B1-U0-G1   |
| VGP726 LED50 727  | 3535               | 141            | B1-U0-G1   | 3471                | 139            | B1-U0-G1   | 3525               | 141            | B1-U0-G1   |
| VGP726 LED60 727  | 4309               | 150            | B1-U0-G1   | 4231                | 147            | B1-U0-G1   | 4296               | 149            | B1-U0-G1   |
| VGP726 LED70 727  | 5072               | 147            | B1-U0-G1   | 4980                | 144            | B1-U0-G1   | 5057               | 147            | B1-U0-G1   |
| VGP726 LED80 727  | 6204               | 143            | B1-U0-G1   | 6092                | 141            | B2-U0-G1   | 6186               | 143            | B1-U0-G1   |
| VGP726 LED90 727  | 6952               | 141            | B1-U0-G1   | 6827                | 139            | B2-U0-G1   | 6931               | 141            | B2-U0-G1   |
| VGP726 LED100 727 | 7694               | 139            | B1-U0-G1   | 7555                | 136            | B2-U0-G2   | 7671               | 139            | B2-U0-G1   |

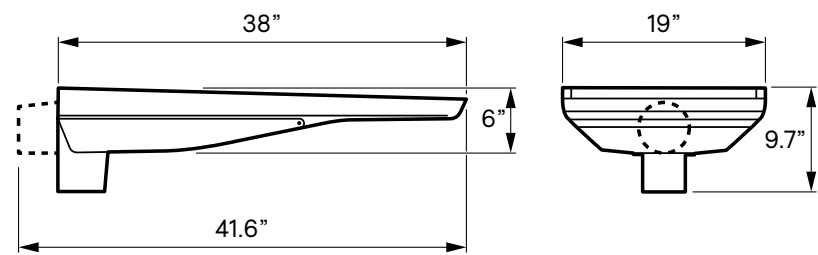
#### 2700K, 70CRI (cont'd)

| Ordering Code     | DW50: Type 3 Medium |                |            | DN25: Type 3 Medium High Tilt |                |            | DX52: Type 4 |                |            | DS50: Type 5 |                |            |
|-------------------|---------------------|----------------|------------|-------------------------------|----------------|------------|--------------|----------------|------------|--------------|----------------|------------|
|                   | Lumen Output        | Efficacy (LPW) | BUG Rating | Lumen Output                  | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating |
| VGP726 LED30 727  | 1666                | 148            | B1-U0-G1   | 1720                          | 152            | B1-U0-G0   | 1703         | 151            | B1-U0-G1   | 1679         | 149            | B1-U0-G1   |
| VGP726 LED40 727  | 2644                | 139            | B1-U0-G1   | 2728                          | 144            | B1-U0-G1   | 2702         | 142            | B1-U0-G1   | 2664         | 140            | B2-U0-G1   |
| VGP726 LED50 727  | 3384                | 135            | B1-U0-G1   | 3492                          | 140            | B1-U0-G1   | 3458         | 138            | B1-U0-G1   | 3410         | 136            | B2-U0-G1   |
| VGP726 LED60 727  | 4124                | 143            | B1-U0-G1   | 4257                          | 148            | B1-U0-G1   | 4215         | 146            | B1-U0-G1   | 4157         | 144            | B3-U0-G1   |
| VGP726 LED70 727  | 4854                | 141            | B2-U0-G2   | 5010                          | 145            | B1-U0-G1   | 4961         | 144            | B1-U0-G1   | 4892         | 142            | B3-U0-G1   |
| VGP726 LED80 727  | 5939                | 137            | B2-U0-G2   | 6129                          | 142            | B2-U0-G1   | 6069         | 140            | B2-U0-G1   | 5985         | 138            | B3-U0-G1   |
| VGP726 LED90 727  | 6654                | 135            | B2-U0-G2   | 6867                          | 139            | B2-U0-G1   | 6800         | 138            | B2-U0-G2   | 6706         | 136            | B3-U0-G1   |
| VGP726 LED100 727 | 7364                | 133            | B2-U0-G2   | 7600                          | 137            | B2-U0-G1   | 7526         | 136            | B2-U0-G2   | 7422         | 134            | B3-U0-G2   |

# SolarForm Gen 3

## Off-grid luminaire

### Dimensions



### Optical Distributions

Type 2 Short: DM32



Type 2 Medium: DN11



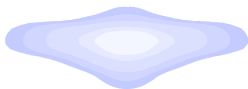
Type 3 Short: DW10



Type 3 Medium: DW50



Type 3 Medium High Tilt:  
DN25



Type 4: DX52



Type 5: DS50



# SolarForm Gen 3

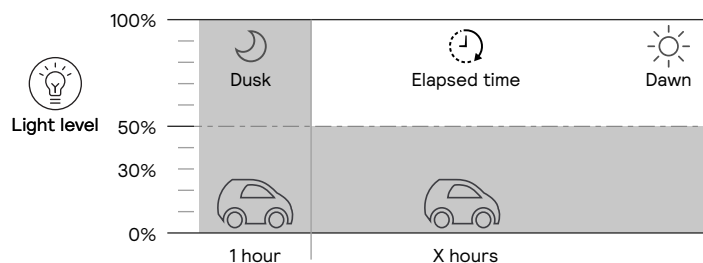
## Off-grid luminaire

### Operating Profiles

#### Fixed Dimming (Without Motion Sensor)

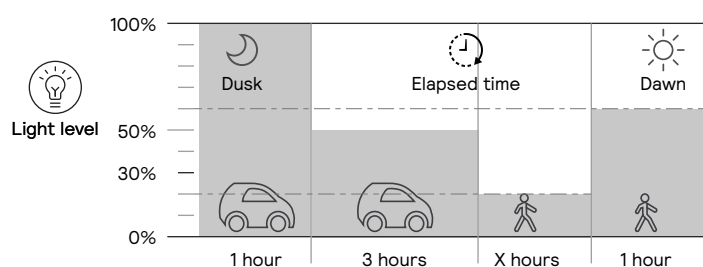
##### SDP1: Default for all products without motion sensor

- First Hour After Dusk: Light level fixed at 100%
- Remaining Hours to Dawn: Light level fixed at 50%



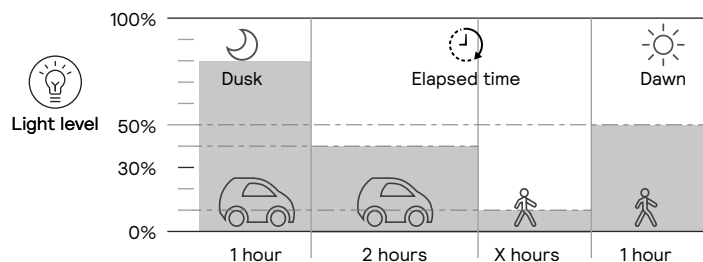
##### SDP2: Fixed Dimming Profile #2

- First Hour After Dusk: Light level fixed at 100%
- Three Hours: Light level fixed at 50%
- Remaining Hours to Dawn - 1 hour: Light level fixed at 20%
- One Hour before Dawn: Light level fixed at 60%



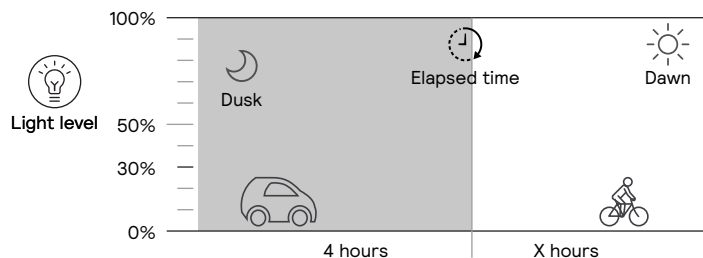
##### SDP3: Fixed Dimming Profile #3

- First Hour After Dusk: Light level fixed at 80%
- Two Hours: Light level fixed at 40%
- Remaining Hours to Dawn - 1 hour: Light level fixed at 10%
- One Hour before Dawn: Light level fixed at 50%



##### SDP4: Fixed Dimming Profile #4

- Four Hours After Dusk: Light Level fixed at 100%
- Luminaire then is OFF for the rest of the night



# SolarForm Gen 3

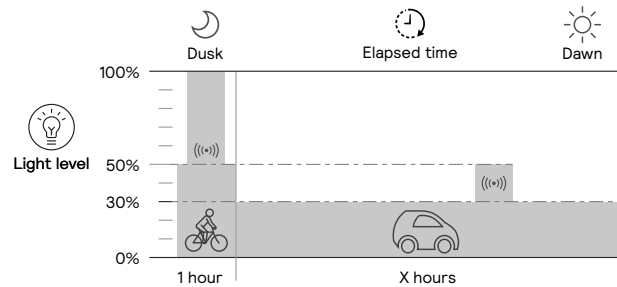
## Off-grid luminaire

### Sensor Dimming (With Motion Sensor)

#### Profile Dimming

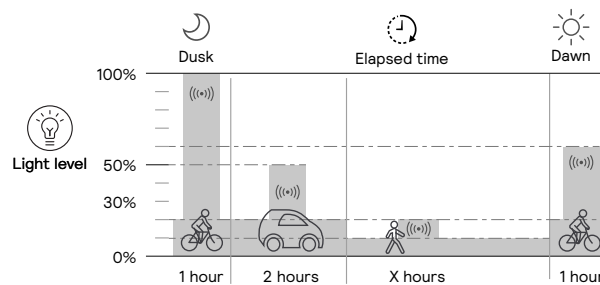
##### OSB-SDP1: Default for all products with sensor

- One Hour After Dusk: Light Level at 100% with motion and 50% without motion
- Remaining of the night: Light level at 50% with motion and 30% without motion



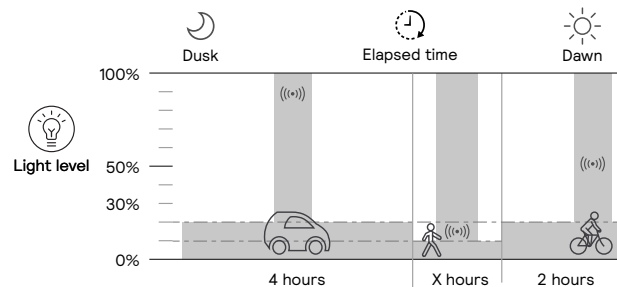
##### OSB-SDP2: Sensor Dimming Profile #2

- One Hour After Dusk: Light Level at 100% with motion and 20% without motion
- Two Hours: Light Level at 50% with motion and 20% without motion
- Remaining Hours to Dawn - 1 hour: Light level at 20% with motion and 10% without motion
- One Hour before Dawn: Light level at 60% with motion and 20% without motion



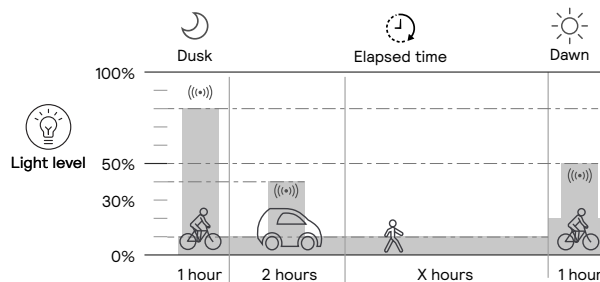
##### OSB-SDP3: Sensor Dimming Profile #3

- Four Hour After Dusk: Light Level at 100% with motion and 20% without motion
- Remaining Hours to Dawn - 2 hours: Light level at 100% with motion and 10% without motion
- Two Hour before Dawn: Light level at 100% with motion and 20% without motion



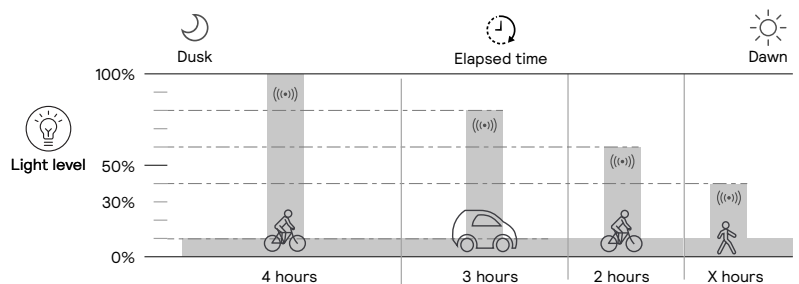
##### OSB-SDP4: Sensor Dimming Profile #4

- One Hour After Dusk: Light Level at 80% with motion and 10% without motion
- Two Hours: Light level at 40% with motion and 10% without motion
- Remaining Hours to Dawn - 1 hour: Light level fixed at 10%
- One Hour before Dawn: Light level at 50% with motion and 10% without motion



##### OSB-SDP5: Sensor Dimming Profile #5

- Four Hours After Dusk: Light Level at 100% with motion and 10% without motion
- Three Hours: Light level at 80% with motion and 10% without motion
- Two Hours: Light level at 60% with motion and 10% without motion
- One Hour before Dawn: Light level at 40% with motion and 10% without motion



# SolarForm Gen 3

## Off-grid luminaire

### Effective Projected Area

|          |            | Tilt Angle            |                       |                       |                       |
|----------|------------|-----------------------|-----------------------|-----------------------|-----------------------|
|          |            | 0°                    | 5°                    | 10°                   | 15°                   |
| Mounting | Post Top   | 0.834 ft <sup>2</sup> | 0.875 ft <sup>2</sup> | 1.014 ft <sup>2</sup> | 1.612 ft <sup>2</sup> |
|          | Side Entry | 0.806 ft <sup>2</sup> | 0.896 ft <sup>2</sup> | 1.526 ft <sup>2</sup> | –                     |

### Poles and Brackets

#### Poles ordering guide

example: SRS-CB-4-11-20-T2D6L-N-BK

| Family                   | Base                                 | Pole Size | Pole Gauge | Height  | Drilling/Tenon Configuration             | Drilling Template | Finish                     |
|--------------------------|--------------------------------------|-----------|------------|---------|------------------------------------------|-------------------|----------------------------|
| SRS Straight Round Steel | CB Carbon Steel Base with Base Cover | 4 4in     | 11 11 ga   | 10 10ft | T2D6L <sup>†</sup> 2-3/8" OD x 6" length | N                 | Match the luminaire finish |
|                          |                                      |           |            | 12 12ft |                                          |                   |                            |
|                          |                                      |           |            | 14 14ft |                                          |                   |                            |
|                          |                                      |           |            | 16 16ft |                                          |                   |                            |
|                          |                                      |           |            | 20 20ft |                                          |                   |                            |
|                          |                                      |           |            | 25 25ft |                                          |                   |                            |
|                          |                                      | 5 5in     | 11 11 ga   | 20 20ft |                                          |                   |                            |
|                          |                                      |           |            | 25 25ft |                                          |                   |                            |
|                          |                                      | 5 5in     | 7 7 ga     | 25 25ft |                                          |                   |                            |

1. Tenon for direct post-top mounting.

2. For side-mounting, SBRKT bracket needed, sold separately.

#### Bracket for side-mounting ordering guide

example: SBRKT-SPK-L1-12-T2D4L-BK

| Bracket Material    | Bracket Type | Configuration and Spacing                                        | Mounting                          | Finish                     |
|---------------------|--------------|------------------------------------------------------------------|-----------------------------------|----------------------------|
| SBRKT Steel Bracket | SPK Spoke    | L1-12 Single Luminaire<br>L2-12 Double Luminaires (back-to-back) | T2D4L 2-3/8" OD x 4" Length Tenon | Match the luminaire finish |

\* **Warning:** Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability. See pole spec sheets for the most up to date EPA data and general design warnings.

† Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates.



# SolarForm Gen 3

## Off-grid luminaire

### Specifications

|                                    |                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Net lumen output range             | Up to 9,000                                                                                                                                    |
| Color temperature                  | 4000K, 3000K, 2700K                                                                                                                            |
| CRI                                | >70                                                                                                                                            |
| Optical distributions              | Type 2, 3, 4 and 5                                                                                                                             |
| Integrated solar panel capacity    | 73Wp, 38V                                                                                                                                      |
| Module Type                        | TopCon PV panel                                                                                                                                |
| Secondary solar panel capacity     | Horizontal: 335Wp Max<br>Vertical Pole Wrap: 3x200Wp Max                                                                                       |
| Battery type                       | Lithium Iron Phosphate (LiFePO4)                                                                                                               |
| Battery capacity options           | 460Wh (18AH, 25.6V)<br>768Wh (30AH, 25.6V)                                                                                                     |
| Charging ambient temperature       | 32°F to 113°F (0°C to 45°C)                                                                                                                    |
| Discharge ambient temperature      | -4°F to 113°F (-20°C to 45°C)                                                                                                                  |
| Motion sensor range                | Mounting Height: 13 to 39 ft<br>Max Detection Distance: 50 ft for pedestrians and cyclists / 98 ft for vehicles<br>Max Detection Speed: 90 MPH |
| Charge controller                  | Integrated, MPPT type charge controller with LED driver                                                                                        |
| Configurable                       | Yes (via Bluetooth through Service Tag App)                                                                                                    |
| Operating Profiles                 | Programmable up to 5 steps                                                                                                                     |
| Run Time Extension (RTE)           | Enabled, starts at 80% battery SOC to support 5 nights                                                                                         |
| Mobile app data monitoring         | PV, LED and battery voltage and current<br>Battery temperature                                                                                 |
| Mobile app fault status monitoring | Load short-circuit<br>Load disconnected<br>PV overvoltage<br>Board overtemperature                                                             |
| IP rating                          | IP66                                                                                                                                           |
| Housing                            | Die-cast aluminum with anti-corrosive coating                                                                                                  |
| Housing finishes available         | White, Aluminum, Black, Grey, Dark Grey, RAL Colors                                                                                            |
| Front cover                        | Tempered glass                                                                                                                                 |
| Mounting                           | Horizontal and vertical pole mounting options (requires 2-3/8" x 6" long tenon)                                                                |
| Adjustable tilt angle              | Post-Top: 0-15 degree adjustable<br>Side-Entry: 0-10 degrees adjustable                                                                        |
| Outer mounting diameter            | 1.9" (48mm) O.D. or 2 3/8" (60mm) O.D.                                                                                                         |
| Operating humidity                 | Up to 95%                                                                                                                                      |
| Dimensions                         | 41.6 x 19 x 9.7" (1057 x 480 x 152 mm)                                                                                                         |
| Weight                             | 56.2 lbs (with battery B460)<br>62.8 lbs (with battery B768)                                                                                   |
| Estimated autonomy days            | Varies by location and operating profile.<br>Contact factory for calculation details.                                                          |

|                              |                                                                                                                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Luminaire Installation       | <b>Outdoor:</b> Side entry and Pole top mounting. Should NOT be installed under shadow of trees / buildings / poles / Snowing regions etc. (Refer mounting instruction sheet for full information / limitations)                                               |
| Certification and compliance | <b>PV Panel:</b> IEC 61215:2016 / IEC 61730-1 & 2:2016<br><b>Battery:</b> IEC 60896-22<br><b>Charge Controller:</b> IEC 62109-1, IEC 61547, IEC 61347, CISPR 15<br><b>Poles:</b> Compliant with AASHTO 2001, CSA, AAMA 2603, ASTM D2244, ASTM D523, ASTM D2247 |
| Limited warranty             | <b>5-Year warranty on luminaire</b> including PV Panel and charge controller<br><b>3-Year warranty on battery</b>                                                                                                                                              |