

# SunBell 2.0 Y

Light and charging



## Technical specifications

### Key features

Solar charging  
Light modes: Low - med - high  
8 functions  
Integrated USB charger  
Serial number  
PAYG (optional)

### Key specifications

1.7 W 4 V solar panel  
4.8 Wh LiFePo4 battery (1,500 mAh at 3.2 V)  
5–7 year lifespan (2,000 charge cycles)  
Advanced circuit protection  
IP64

### Smart features

Dynamic LED charge rate indication to help optimize solar panel placement  
Low battery alert and auto-dim down function  
Emergency strobe light  
Smart light setting control

### Full battery run time

6+ hours at 80 lumen  
15+ hours at 20 lumen  
80+ hours at 5 lumen

### Solar charging (estimated)

 4 h+  
 8 h+  
 10 h+

### Light output (lux) at 1.0 meter (diffused light)

104 lux on high setting (80 lm)  
27 lux on medium setting (20 lm)  
6 lux on low setting (5 lm)

### Light power (watts) for each light setting

6 h+ 80 lm 0.77 W (high)  
20 h+ 20 lm 0.2 W (medium)  
80 h+ 5 lm 0.055 W (low)

### Lighting

3 Samsung LEDs  
LED lifespan: 50,000 hours+  
Light distribution: 90–360 degrees (depending on use)  
Light color: Cool White (5,500–6,000 Kelvin)

### Battery & power

Battery type: LiFePO4  
Battery capacity: 4.8 Wh (1,500 mAh at 3.2 V) @ 100% DoD  
Battery lifespan: 5–7 year (2,000 charge cycles)  
Solar panel type: monocrystalline  
Solar panel output: 1.7 W ± 5% at 4 V  
Voc= 5.05V, Isc=0.430 A  
Transformation efficiency is 19 % ± 2%  
MPPT technology for optimized charging  
Normal solar charge time: < 5 hours  
USB charge time: 1.5 hours  
4 m retractable solar cable

### Device charging

USB port (5 V 500 mA)  
Compatible with most smartphones

### Materials & durability

Drop-proof and UV-stable polycarbonate & ABS casing  
Steel gooseneck  
Easily replaceable battery  
Battery protection: Self discharge, deep discharge, reverse polarity, trickle charge

### Size & weight

Box dimensions LxWxH: 15 x 15 x 16 cm  
Total weight in box: 700 g

### Warranty

Standard 2 years warranty

### Certifications

CE  
IP64  
Lighting Global Quality Standards

### Box content

Light & battery unit  
Lamp shade  
Solar panel with 4 m retractable cable  
User manual  
Octopus charging cable (mini-USB, micro-USB and small pin Nokia plug)