



2C Solar Light Cap Specifications

Specification	Description
Bulb type	2 x Ultra bright LEDs
LED rating	25,000 milli-candela each
LED colour	Warm White
Weight (w/ batteries)	135 grams (4.8 oz)
Dimensions	16 x 13 x 37 cms
Brightness (lux @ 2 meters)	10
Maximum visible distance	2km
Maximum beam distance	22 meters
Brightness levels	Variable control by user
Peak style	Pre-bent for optimum sun angle Non adjustable shape
Beam type	To See with 15 degree wide Flood, at downward angle Be seen with 280 degree light output (See and be seen modes operate concurrently)
Strobes	Yes, High visibility slow / fast flashing S.O.S – accurate timing 10Hz strobe (with auto shutoff after two minutes)
Regulated output	Yes, using 2C Futurevision™ variable duty cycle PWM (pulse width modulation)
Battery life at 20 Celsius (70 F)	3+ hours at full power after full charge (3 days sun)
Battery life at 20 Celsius (70 F)	3 hours at full power after 1 day of sun charge
Battery life at 20 Celsius (70 F)	36 hours at full dim after 1 day of sun charge
Battery Life expectancy	3 years until 80% capacity (daily use)
Battery storage – self discharge (20 Celsius)	6 months until 60% charge
Batteries	3 x 160mAh NiMH Button cells, sealed inside peak
Charging	Internal through flexible amorphous solar panel
Material – peak	Plastic polypropylene peak Sealed by sonic welding
Material – cap	100% cotton, or PolyCotton, or PVC
Environmental Certifications	RoHS, FCC, CE
Purchase price recovery time	4.0 weeks until free light After 4.0 weeks 2C has recovered initial cost when compared to replaceable battery powered product of similar output and cost using 2xCR2032 batteries
Return on Investment	330 battery replacements (NZ\$2145) During the life of the product, it will provide the light of 330 batteries of comparable output (based on CR2032x2)
Carbon Footprint – in use	Solar charged product has zero emissions, zero pollution, no batteries needed
Carbon Footprint – recovery of power usage during manufacture	< 1 hour when used instead of fossil fueled domestic lighting (60 watt bulb) (est.)
Carbon footprint – WEEE disposal policy	Under European WEEE standards, batteries should be removed by cutting around edge with scissors, and disposed of separately
Water proofing certifications	IPX6
Dust proofing certifications	IP6X
Temperature Range	Charge 0 C to 45 C Discharge -20 C to 45 C Storage -20 C to 65 C
	Note: Some performance degradation at temperature extremes

Specifications are subject to change without notice. © 2C Light Co. Ltd., 2008, Version 1.4 October 2009