

Rotary Solar Lights

RAWCS PROJECT 36/2011-12 – A project sponsored by Sutherland Rotary Club

SOLAR MUSCLE FACT SHEET

Our solar-powered LED light

Flexiway Solar Solutions has produced a unique affordable, lightweight & robust all-in-one solar light that is easy to use, weatherproof and hard to break.

It provides up to 7 hours of light per charge at full light-power, double at the optional 50% setting.

The new Solar Muscle

The “Solar Muscle” is a unique light: 2 brightness settings and a new strong click-together system on all sides so you can join as many lights together as you like, producing as much light as you need.

Improved functionality

- **Brighter LEDs**, producing 12/25 real lumens.
- Robust **triple-function** switch to increase brightness: Off/charge; 50% (6 LEDs) & 100% (12 LEDs).
- **Thin, powerful** (but still replaceable) batteries to reduce weight and thickness of unit without loss of usage time.
- 4 big/strong holes to hang or fix the light.
- Strong **click-together system** on all sides, so you can join lights together, in a line or a rectangle.
- **Lifespan**: We guarantee **2 years**, but will last many years.
- **Weather and shockproof**.
- **One month payback time** from kerosene savings in developing countries.



We have delivered over 3500 Solar Muscles to Papua New Guinea, changing many more lives. Households save money, students can study & there are no more fires and toxic fumes due to the use of kerosene lamps.

The **Economist Magazine** named the Solar Muscle as one of the items “that can most quickly improve the lives of the world’s poorest people.”

The Solar Muscle was a finalist in the **2012 AID-Expo awards**.



4 Solar Muscles, clicked together, on full power setting

Specifications:

Size per unit:	9 x 9 x 2.5cm - 3.5 x 3.5 x 1 inch
Weight per unit:	140grams - 4.2 Oz (packaged)
Shipping size:	32 x 30 x 22cm – 13 x 12 x 9 inch
Shipping weight:	9.5 kgs – 20.4 Lbs
Units per m³ – 35ft³	2750 lights (approx)
Weight per m³ – 35ft³	316 kgs – 700 lbs (packaged)
Batteries/power:	3x 1.2volts/600mAh
-Size/type:	AAA size - Rechargeable - NiMH
-charge cycles:	Low Self Discharge - 500+ charges
LEDs:	12
-light intensity:	2300 -3000 mcd per LED max
-viewing angle:	100 degrees
Lumens per LED	4-5 (theoretical)
Total Lumens:	48-60 (theoretical) 25 (Real, tested lumens)
Settings/switch:	(1) Off - (2) 50% (6 LEDs on) &
-3 settings:	(3) 100% (all 12 LEDs on)
Solar panel:	Working voltage: 6 V Working current: 100 mA Max output: 0.6W
Time to charge:	15hrs (based on 50% efficiency)
Autonomous time	5-7 hours (at full power)
(= running time)	10-14 hours (50% power)
Solar Run Time	> 3.5 hours, exceeding UN
(duration on a day’s solar charge)	requirements.



For more information:

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or contact Pam Boler – Phone: 0410 228 543