

The revolutionary Solar Home System concept:

# Sundaya Ulitium



# Features

## Flexibility

The modular construction creates the highest possible flexibility. The system is suited for garden houses and garages as well as for camper vans and solar home systems. Users can expand the number of lamps and televisions in practically unlimited quantities and can combine them with each other. Depending on the number of devices and luminous period desired, different module sizes are available.

## Integration

The electronics and a lithium-ion rechargeable battery have been integrated in the lamps and television. By using a distributor box, one can connect the solar modules directly to the user's system. A charge regulator is not necessary.

## Efficiency

The LED lamps consume extremely low amounts of energy and are very effective. For 240 lumens of light output over six hours, eight kilojoules of energy per hour are sufficient, which a solar module can supply with an output of only three watts. If one dims the lamps, which is possible in three steps, they need even less energy – at 120 lumens, they can be illuminated, for example, for 12 hours (depending on the state of charge). The Sundaya lamp also leads the field as far as efficiency is concerned. While a conventional light bulb delivers one percent and a low-energy light bulb five to ten percent, the new LED lamp from Sundaya has an efficiency of 23 percent.

## Modularity

This product range is just the beginning of an exciting series of innovative products.

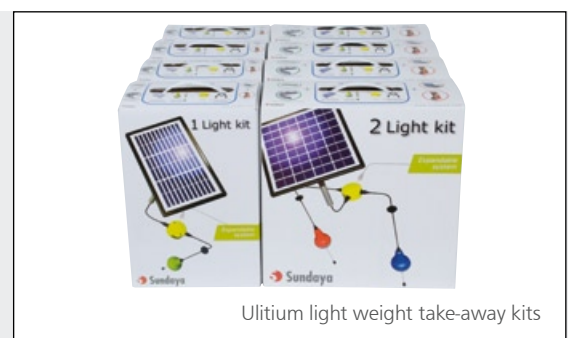
You can expand this basic installation with:

- other Lightkits,
- an STV (Sundaya Television) with more lights,
- a laptop computer,
- more LECs (Solar modules),
- an AC to DC Converter to use along with grid electricity,
- more Ulitium200,
- other accessories,
- or anything that will become available in this product range.

The possibilities are unlimited.



Ulitium 200 Solar Lightkit white



Ulitium light weight take-away kits



Ulitium 200 Range of colours

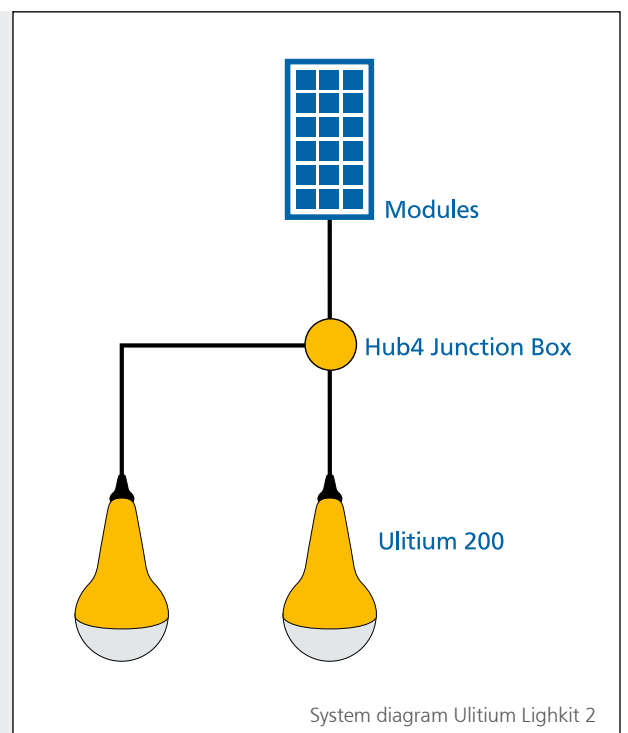
# Why Ulitium?

## Comparison to common solutions

Comparison: Ulitium Solar Home Systems / Classical Solar Home Systems		
	Ulitium SHS	Classical SHS
Components needed	Ulitium Lightkit1 (incl. Cable, Module, Ulitium200, Hub4)	Solar Module, Charge Controller, Battery, Cable, Fluorescent Compact Lamp, Fitting, Lamp Holder
Installation material	If necessary: Screwdriver, Drill machine	Screwdriver, Crimping tools, Cable sleeves, Cutter knife, Side cutter, Drill machine, ...
Installation time (end customer)	1 minute – no special knowledge necessary	> 15 minutes (depending on knowledge and instructions)
Storage concept	Decentralised – thus unlimited expandable	Centralised – limited expandability
Availability	Any component needed is in the Lightkit	Different components from several suppliers needed – availability problems, time delays and compromises
Shop presentation	Professional mass-market conform light weight take-away lightkits	Mingle-mangle of single components – not suitable for mass-market presentation
Modularity	Concerted single components in kits with plug-and-play installation system and expandable with concerted components	Search for the right charge controller, that fits to the battery and the module and so on – each component from a different supplier with different standards, no modularity
Switching and energy saving	Pull switch integrated – dimming of the lamp in three steps (100 %, 50% and 10%) with the pull switch and by that saving up to 90 % of the energy	No switch included – if switch is required, a special dimming switch has to be bought extra; otherwise no energy saving possible

and many more benefits for the wholesalers and the end users

Comparison: Ulitium / Fluorescent Compact Lamp / Incandescent Bulb			
Technical data	Ulitium	CFL	Incandescent
Nominal power [W]	2,22	6	40
Lumen output [Lm]	240	240	240
Lifetime [h]	20.000	8.000	1.000



# Ulitium Range

Article	Description	Dimensions	Weight
<b>Ulitium light weight takeaway packages</b>			
1 Ulitium 200 Solar Lightkit white	(1 x Ulitium 200 white / 1 x 3 W module)	20 x 13 x 30 cm	1,55 kg
2 Ulitium 200 Solar Lightkit white	(2 x Ulitium 200 white / 1 x 6 W module)	30 x 13 x 30 cm	2,5 kg
3 Ulitium 200 Solar Lightkit white	(3 x Ulitium 200 white / 1 x 9 W module)	40 x 13 x 30 cm	3,6 kg
4 Ulitium 200 Solar Lightkit white	(4 x Ulitium 200 white / 1 x 12 W module)	50 x 13 x 30 cm	4,7 kg
1 Ulitium 200 Solar Lightkit coloured	(1 x Ulitium 200 green / 1 x 3 W module)	20 x 13 x 30 cm	1,55 kg
2 Ulitium 200 Solar Lightkit coloured	(2 x Ulitium 200 blue, red / 1 x 6 W module)	30 x 13 x 30 cm	2,5 kg
3 Ulitium 200 Solar Lightkit coloured	(3 x Ulitium 200 green, blue, red / 1 x 9 W module)	40 x 13 x 30 cm	3,6 kg
4 Ulitium 200 Solar Lightkit coloured	(4 x Ulitium 200 green, blue, red, yellow / 1 x 12 W module)	50 x 13 x 30 cm	4,7 kg
STV15" + 2 Ulitium 200 Lightkit	(2 x Ulitium 200 green / 1 x 21 W module / 1 x STV15")	–	8,8 kg
STV19" + 2 Ulitium 200 Lightkit	(2 x Ulitium 200 green / 1 x 21 W module / 1 x STV19")	–	9 kg
<b>Appliances</b>			
Ulitium 200 red	(2,22 W / 8 kJ/h / 60 kJ storage / 240 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	350 g
Ulitium 200 green	(2,22 W / 8 kJ/h / 60 kJ storage / 240 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	350 g
Ulitium 200 yellow	(2,22 W / 8 kJ/h / 60 kJ storage / 240 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	350 g
Ulitium 200 blue	(2,22 W / 8 kJ/h / 60 kJ storage / 240 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	350 g
Ulitium 200 black	(2,22 W / 8 kJ/h / 60 kJ storage / 240 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	350 g
Ulitium 200 white	(2,22 W / 8 kJ/h / 60 kJ storage / 240 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	350 g
Ulitium 400 red	(4,44 W / 16 kJ/h / 120 kJ storage / 480 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 400 green	(4,44 W / 16 kJ/h / 120 kJ storage / 480 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 400 yellow	(4,44 W / 16 kJ/h / 120 kJ storage / 480 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 400 blue	(4,44 W / 16 kJ/h / 120 kJ storage / 480 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 400 black	(4,44 W / 16 kJ/h / 120 kJ storage / 480 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 400 white	(4,44 W / 16 kJ/h / 120 kJ storage / 480 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 600 red	(6,66 W / 24 kJ/h / 120 kJ storage / 720 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 600 green	(6,66 W / 24 kJ/h / 120 kJ storage / 720 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 600 yellow	(6,66 W / 24 kJ/h / 120 kJ storage / 720 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 600 blue	(6,66 W / 24 kJ/h / 120 kJ storage / 720 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 600 black	(6,66 W / 24 kJ/h / 120 kJ storage / 720 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
Ulitium 600 white	(6,66 W / 24 kJ/h / 120 kJ storage / 720 Lm / 4,8 m cable, plug and switch)	Ø110 x 170 mm	500 g
STV15" Lithium	(30 kJ/h / 270 kJ storage)	15" screen size	3,5 kg
STV19" Lithium	(90 kJ/h / 450 kJ storage)	19" screen size	3,5 kg
<b>Solar Modules</b>			
LEC50	(3 W / 5 m cable + DC bayonet plug)	–	–
LEC100	(6 W / 5 m cable + DC bayonet plug)	–	–
LEC150	(9 W / 5 m cable + DC bayonet plug)	–	–
LEC200	(12 W / 5 m cable + DC bayonet plug)	–	–
LEC350	(21 W / 350 kJ/day / 5 m cable + DC bayonet plug)	–	–
<b>Installation Accessories</b>			
Bayonet Plug DC Cable 120 cm	–	[L] = 120 cm	–
Bayonet Plug DC Cable 240 cm	–	[L] = 240 cm	–
Bayonet Plug DC Cable 360 cm	–	[L] = 360 cm	–
Bayonet Plug DC Cable 480 cm	–	[L] = 480 cm	–
Bayonet Plug DC Cable 600 cm	–	[L] = 600 cm	–
Hub4Junction Box	(Junction box for up to 4 bayonet plugs)	Ø80 x 37 mm	70 g

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