

Litio Solar: Solar Home System Kit

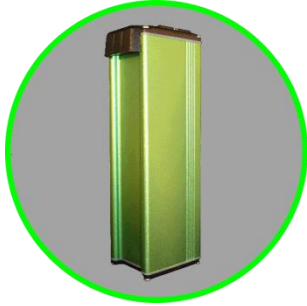


The Litio Solar Home System Kit combines long life products with easy Plug & Play installation. The Lithium Battery System`s built-in solar battery MPPT charger, battery monitoring system and load output control optimize the conditions for a long battery lifespan. The advanced LCD display provides the user with valuable and precise system information. The charge indicator shows the remaining operation time calculation/display and can help the user to manage his energy consumption. The USB outlet allows many 5V USB devices to be recharged or operated. Common 12V loads can be operated by the system.

The Sunflower LED Lamp`s unique heat sink design and high frequency LED driver and included excess-temperature protection (dimming) as well as the absence of electrolytic capacitors make sure the lamp can last for very long time, even in harsh environments. The built-in 5m wire with switch and plug for an easy installation makes the system setup very simple. The optional extra extension wires make the system highly adjustable to different distances between the lamps place of use and the Litio System.

The Solar Panels power is optimized for recharging the Lithium Battery. In order to recharge the battery faster or in case of higher energy demands, it is possible to add more solar power to the system; multiple Kits can be combined and recharged together. As multiple Kits can be combined and recharged together it is easy to expand existing systems on request.

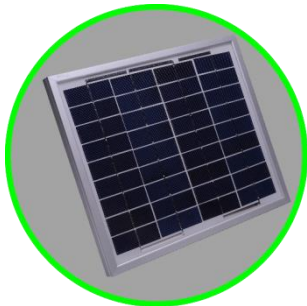
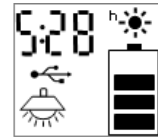
Litio Solar's Key features/optional accessories



- **Long Life Lithium Iron Phosphate Battery System >2000 full cycles**
- 12.8V nominal voltage: can operate standard 12V loads
- Rugged Aluminum housing
- 51Wh/89Wh capacity available
- MPPT-Charge Controller
- LCD-Display with remaining load operation time
- Battery Management System integrated
- Single battery cell monitoring
- Low-battery warning
- System paralleling
- Built in 1 year Data-Logger (standard)
- Pay As You Go Option



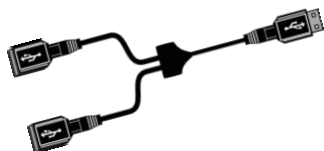
- LED Lamps
- Sunflower LED **long life lamp** >60,000h (L70)
- High performance heatsink
- Excess temperature protection dimming
- Excellent performance in high altitude and hot environments
- 280lm/420lm/560lm available
- **Constant lumen output** and constant Power during battery discharge
- **Mini Sunflower 17lm (5V and 12V Versions)**



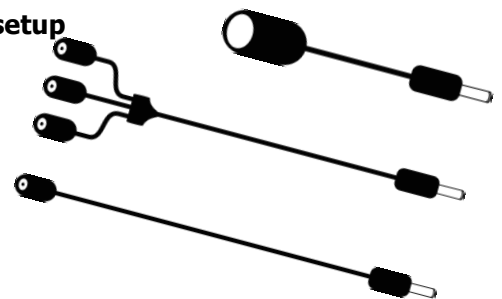
- Solar Panel, various power possible
- Standard 12V panel can be applied (any power)
- Panel mounting bracket available (option)



Wiring options for flexible System setup



- Extension wires
- Distribution wires
- Cigar lighter socket adapter
- USB distributor



Optional Accessories:

- FM/AM rechargeable Radio
- NiMH battery charger for AA and AAA size batteries
- Laptop charger (combine with LS7000)
- Radio battery adapter



Solar Home System Kit LS7000-K023R

3 Lamps Technical data/ Kit content:



	Description:	Rating:	Content:
Battery System	Litio Solar 7000: Lithium Iron Phosphate battery system with solar charger and LCD display 1 Solar Input, 20Wp, higher power solar panels can be connected, device will limit power draw, several Kits can be connected to one panel; 3 pcs 12V Load Output (max. 6A), Number of outputs can be increased by load distribution wire; 1 USB charging output (max. 1.5A)	12.8 V 7.0 Ah 89 Wh	1 pc

	Description of optional Light Points:	Individual Lumen Output:	Content:	
Lighting/Load	Light Point 1: Sunflower Lamp	2 W	280 lm	
	Light Point 2: Sunflower Lamp	3 W	420 lm	
	Load 7: Radio AM/FM	0.80 W		
	total light point power			7.00 W
	All light points lumen output:			980 lm
All light points run time after typical day of solar charging			12.5 hours	
assume solar day: 5.0 KWh/m2/day			89.0 Wh/day	
All lighting points full battery runtime:			12.5 hours	

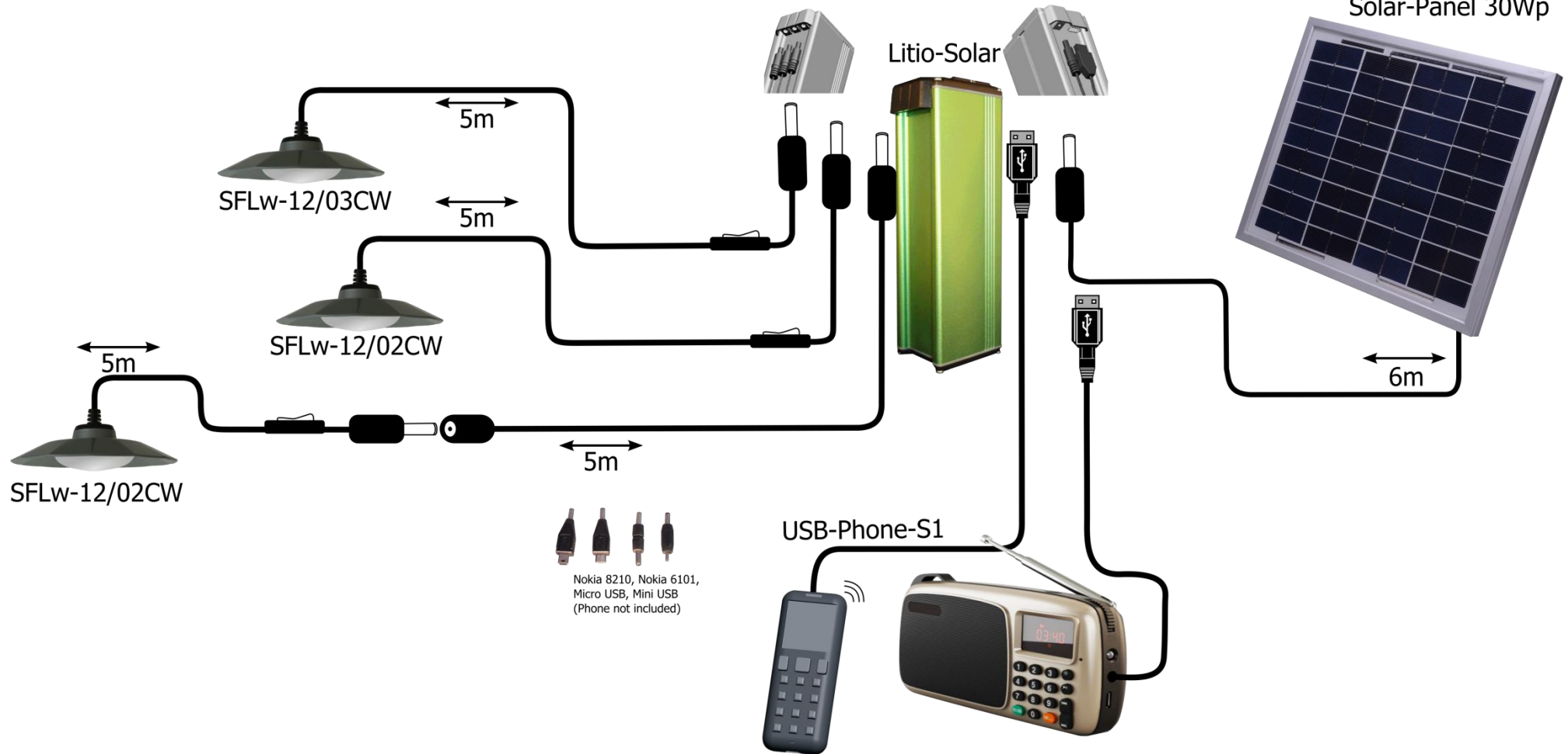
	Description:	Rating:	Content:
Solar	Polycrystalline Silicon Solar Panel	30 Wp	1 pc
	Equipped with 6m wire		= 30 Wp

	Description:	Details	Content:
Accessory	Mobile phone adapter	USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB	1 pc
	Load extension wire	Length: 5m	1 pc

Product Warranty: 3 years on materials and manufacturing defects
 Operation ambient temperature -20 to +50°C; All values at 25°C ambient temperature

Solar Home System Kit LS7000-K023R

3 Lamps Technical data/ Kit content:



Solar Home System Kit LS7000-K020

4 Lamps Technical data/ Kit content:



	Description:	Rating:	Content:
Battery System	Litio Solar 7000: Lithium Iron Phosphate battery system with solar charger and LCD display 1 Solar Input, 20Wp, higher power solar panels can be connected, device will limit power draw, several Kits can be connected to one panel; 3 pcs 12V Load Output (max. 6A), Number of outputs can be increased by load distribution wire; 1 USB charging output (max. 1.5A)	12.8 V 7.0 Ah 89 Wh	1 pc

Lighting/Load	Description of optional Light Points:			Individual Lumen Output:	Content:
	Light Point 1-2:	Sunflower Lamp	2 W	280 lm	2 pc
	Light Point 3-2:	Sunflower Lamp	3 W	420 lm	2 pc
	Load 7:	Radio AM/FM	0.80 W		Option-R
	total light point power				10.00 W
All light points lumen output:					1400 lm
All light points run time after typical day of solar charging					8.7 hours
assume solar day: 5.0 KWh/m2/day					89.0 Wh/day
All lighting points full battery runtime:					8.7 hours

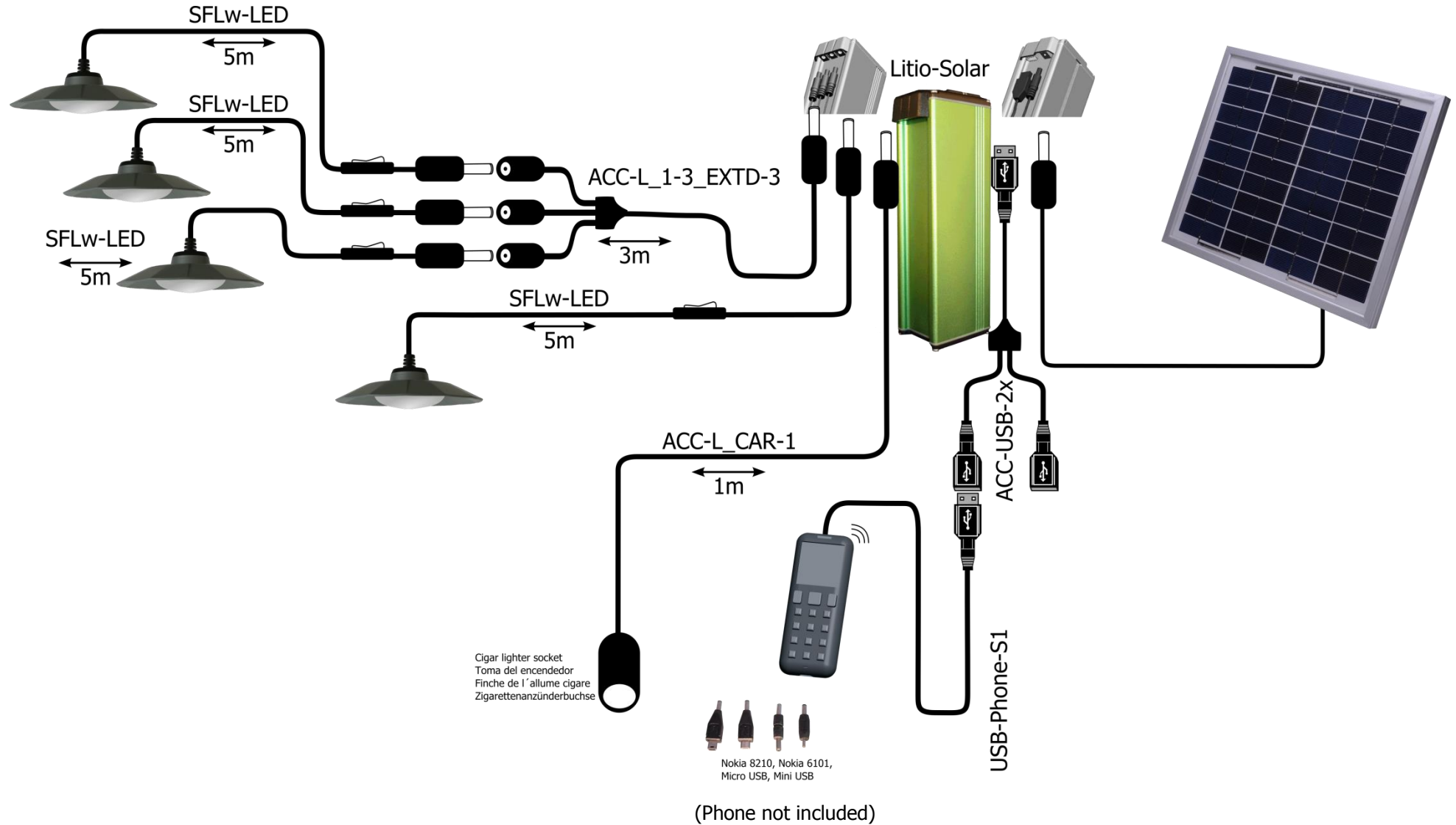
	Description:	Rating:	Content:
Solar	Polycrystalline Silicon Solar Panel Equipped with 6m wire	30 Wp	1 pc = 30 Wp

	Description:	Details	Content:
Accessory	Mobile phone adapter	USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB	1 pc
	Load distribution wire	Length: 3m, 3 outputs	1 pc
	USB distributor	2 USB output	1 pc
	Cigar Lighter socket adapter	Length: 1m	1 pc

Product Warranty: 3 years on materials and manufacturing defects
Operation ambient temperature -20 to +50°C; All values at 25°C ambient temperature

Solar Home System Kit LS7000-K020

4 Lamps Technical data/ Kit content:



Solar Home System Kit LS4000-K011

3 Lamps Technical data/ Kit content:



	Description:	Rating:	Content:
Battery System	Litio Solar 4000: Lithium Iron Phosphate battery system with solar charger and LCD display 1 Solar Input, 20Wp, higher power solar panels can be connected, device will limit power draw, several Kits can be connected to one panel; 3 pcs 12V Load Output (max. 6A), Number of outputs can be increased by load distribution wire; 1 USB charging output (max. 1.5A)	12.8 V 4 Ah 51 Wh	1 pc

	Description of optional Light Points:	Individual Lumen Output:	Content:
Lighting/Load	Light Point 1-2: Sunflower Lamp 2 W	280 lm	2 pcs
	Light Point 3-4: Sunflower Lamp 3 W	420 lm	1 pcs
	All light points lumen output:		980 lm
	All light points run time after typical day of solar charging assume solar day: 5.0 kWh/m ² /day		5.7 hours 40.0 Wh/day

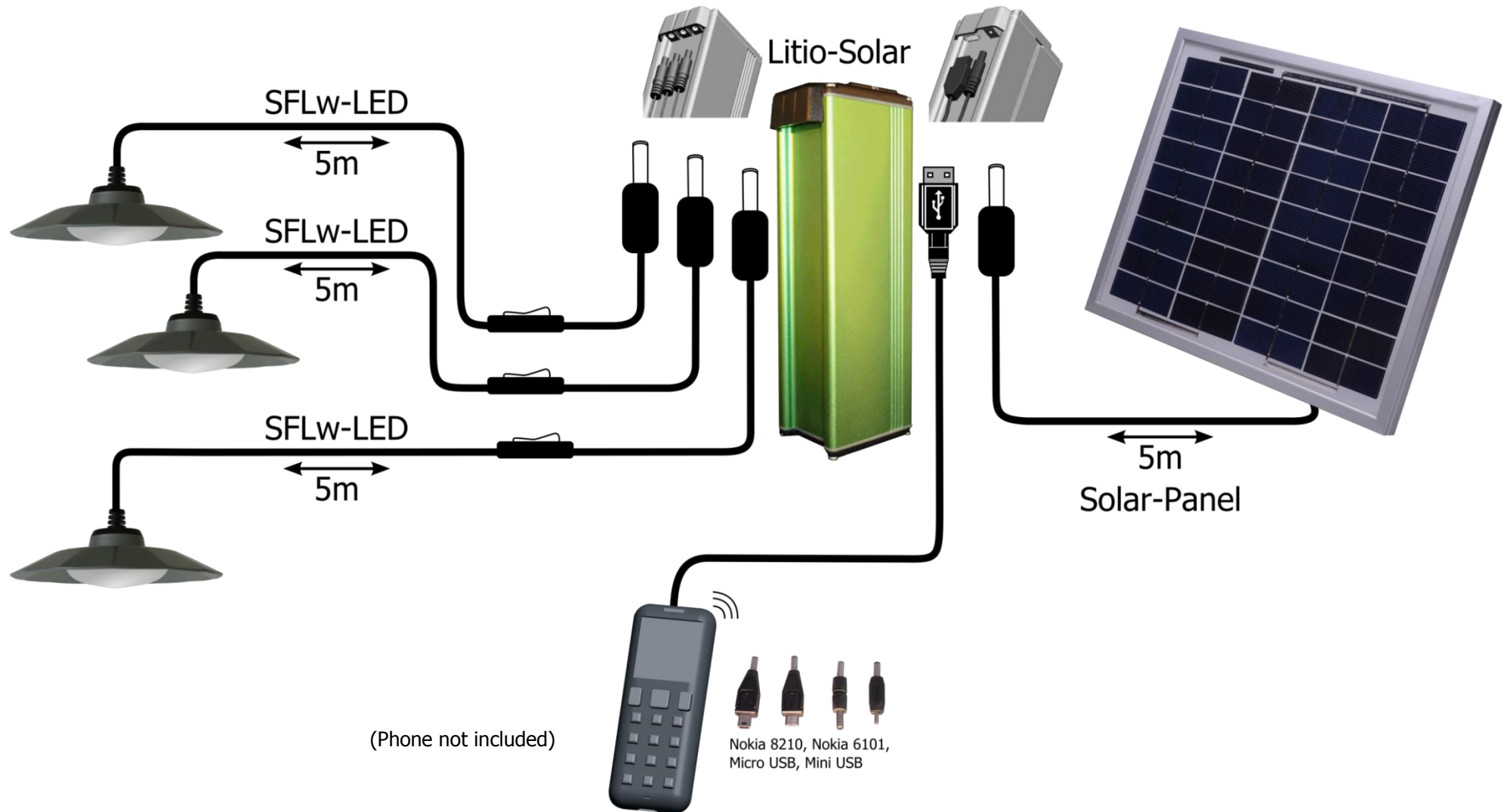
	Description:	Rating:	Content:
Solar	Polycrystalline Silicon Solar Panel Equipped with 5m wire	10 Wp	1 pc

	Description:	Details	Content:
Accessory	Mobile phone adapter	USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB	1 pc

Product Warranty: 3 years on materials and manufacturing defects
Operation ambient temperature -20 to +50°C; All values at 25°C ambient temperature

Solar Home System Kit LS4000-K011

3 Lamps Technical data/ Kit content:



Solar Home System Kit LS4000-K020R

4 Lamps Technical data/ Kit content:



	Description:	Rating:	Content:
Battery System	Litio Solar 4000: Lithium Iron Phosphate battery system with solar charger and LCD display 1 Solar Input, 20Wp, higher power solar panels can be connected, device will limit power draw, several Kits can be connected to one panel; 3 pcs 12V Load Output (max. 6A), Number of outputs can be increased by load distribution wire; 1 USB charging output (max. 1.5A)	12.8 V 4 Ah 51 Wh	1 pc

	Description of optional Light Points:	Individual Lumen Output:	Content:
Lighting/Load	Light Point 1-3: Sunflower Lamp 2 W Equipped with 5m wire and switch	280 lm	3 pc
	Light Point 4: Mini Sunflower 0.25 W USB Lamp Equipped with 8m wire and switch	17 lm	1 pc
	Load: Radio AM/FM 0.50 W		1 pc
	Load: Torch1		1 pc
	All light points lumen output:		
All light points run time after typical day of solar charging assume solar day: 5.0 KWh/m2/day			6.40 hours 40.0 Wh/day

	Description:	Rating:	Content:
Solar	Polycrystalline Silicon Solar Panel Equipped with 5m wire	10 Wp	1 pc

	Description:	Details	Content:
Accessory	Mobile phone adapter	USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB	1 pc
	Load distribution wire	Length: 3m, 3 outputs	1 pc
	USB distributor	2 USB output	1 pc
Product Warranty: 3 years on materials and manufacturing defects, Radio + Torch: 15 Months			
Operation ambient temperaturer -20 to +50°C; All values at 25°C ambient temperature			

Solar Home System Kit LS4000-K020R

4 Lamps Wiring diagram:

