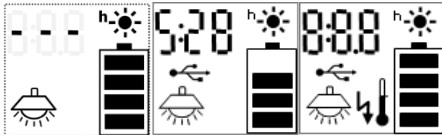
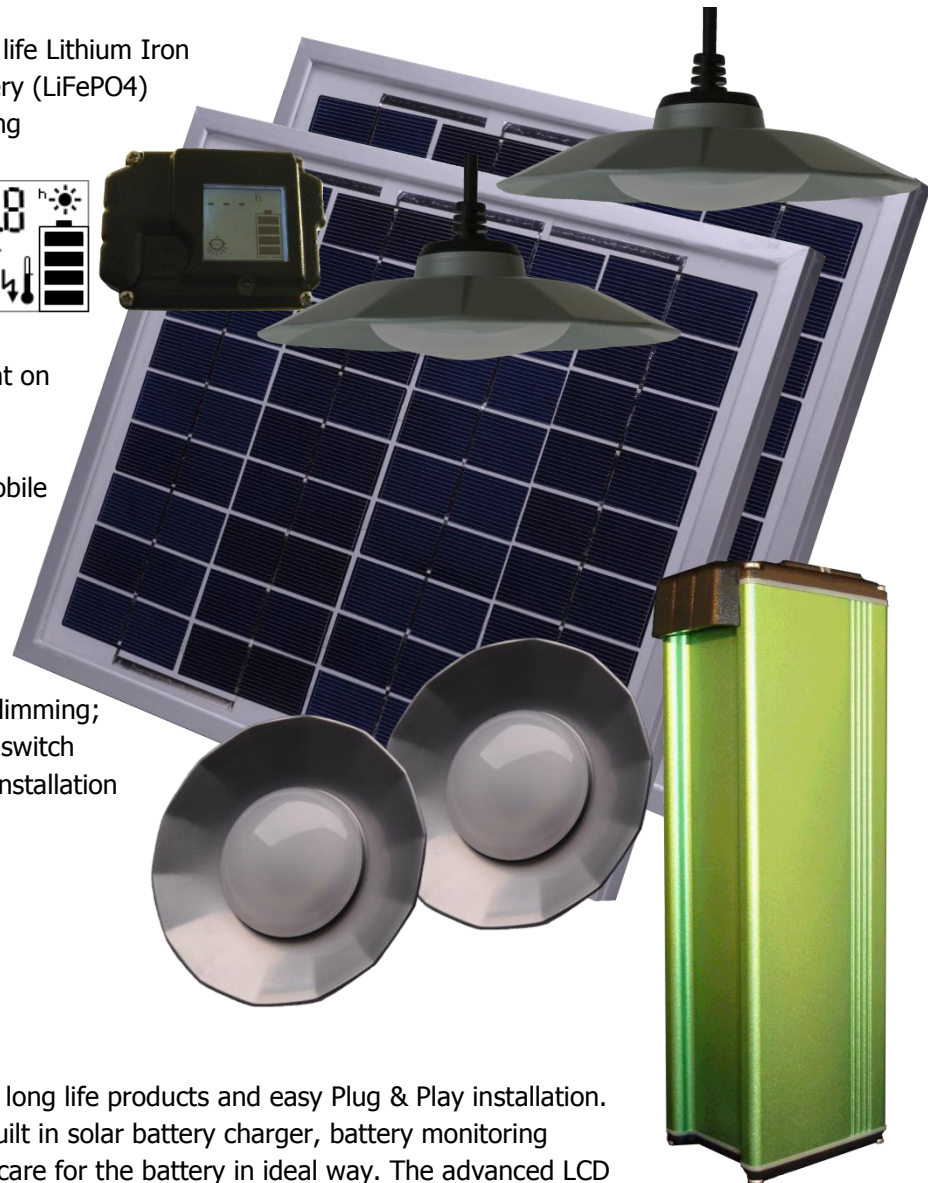


Litio Solar: Solar Home System Kit LS7000-K4, 4 Lamps

- Solar Home System with long life Lithium Iron Phosphate rechargeable Battery (LiFePO4)
- Rugged Aluminum / PC housing
- LCD display with backlight



- LED warning signal
- Touch switch for LCD backlight on and low power activation
- 3 load outlet connectors
- 5V USB outlet for charging mobile phone (adapters included)
- Plug & Play wiring
- Solar Panel included
- Sunflower LED Lamps, high efficiency and over-temperature protection dimming; With 5m connecting wire and switch
- Lamp Extension wire flexible installation
- Mobile Phone adapter set



Litio Solar Home System Kit combines long life products and easy Plug & Play installation.

The Lithium Battery System with its built in solar battery charger, battery monitoring system and load output control takes care for the battery in ideal way. The advanced LCD display will provide valuable and clear system information to the user. The useful battery state of charge with remaining operation time calculation can help the user to manage his energy consumption. The USB outlet allows many 5V USB devices to be recharged or operated. Any 12V load can be operated by the system (within power limits).

Sunflower LED Lamp with its unique heat sink design and high frequency LED driver with no electrolytic capacitors including the over-temperature protection (dimming) make sure the lamp can last for very long time, even in harsh environment. The built in 5m wire with Switch and plug for easy installation makes the system setup very simple. The extra extension wires makes the installation very flexible for adjusting different distance between lamps target place and Lithium System.

The Solar Panels power is optimized for recharging the Lithium Battery. For faster recharging the battery it is possible to add more solar power to the system or for more energy demand, several Kits can be combined.

Solar Home System Kit LS7000-K4

Technical Data:



Lithium Battery System	LS7000
Kit content pcs:	1
Nominal System Voltage:	12.8V
Battery Type:	LiFePO4
Battery Capacity:	7000mAh/89Wh
Charging Current:	1.5A (max. 20W) - Solar Panel: Max 25Voc, no power limit, several LS units can be connected to one panel for charging
Load Current:	6A
Working Temperature:	-20... +50°C
USB Outlet:	5V/1.5A
Size:	224x85x65mm
Display:	LCD +LED
Connectors:	Panel: 1 Barrel (5.5/2.5mm) - Load: 3 Barrel (4.75/1.7mm) - USB: USB-A

LED Lamp:	Sunflower SFLw-12/02CW	Sunflower SFLw-12/03CW	Sunflower SFLw-12/05CW
Kit content pcs:	2	1	1
Color Temperature	6000K (+/-10%)		
Power (+/-0.5W)	2W	3W	5W
Current @ 12V	0.17A	0.25A	0.42A
Nominal Lumen Output	200lm	300lm	500lm
Lumen Efficiency	>100lm/W		
CRI	80%		
Working Temperature	-20 ... +50°C		
LED Lifetime	50,000h		
IP Rating	IP50		
Humidity	<95% non-condensing		
Wire/connector	5m, AWG20 with Switch and Barrel plug		
Diameter/Height	122mm/60mm		
Length/Diameter	-		
Switching Cycles	Infinite		

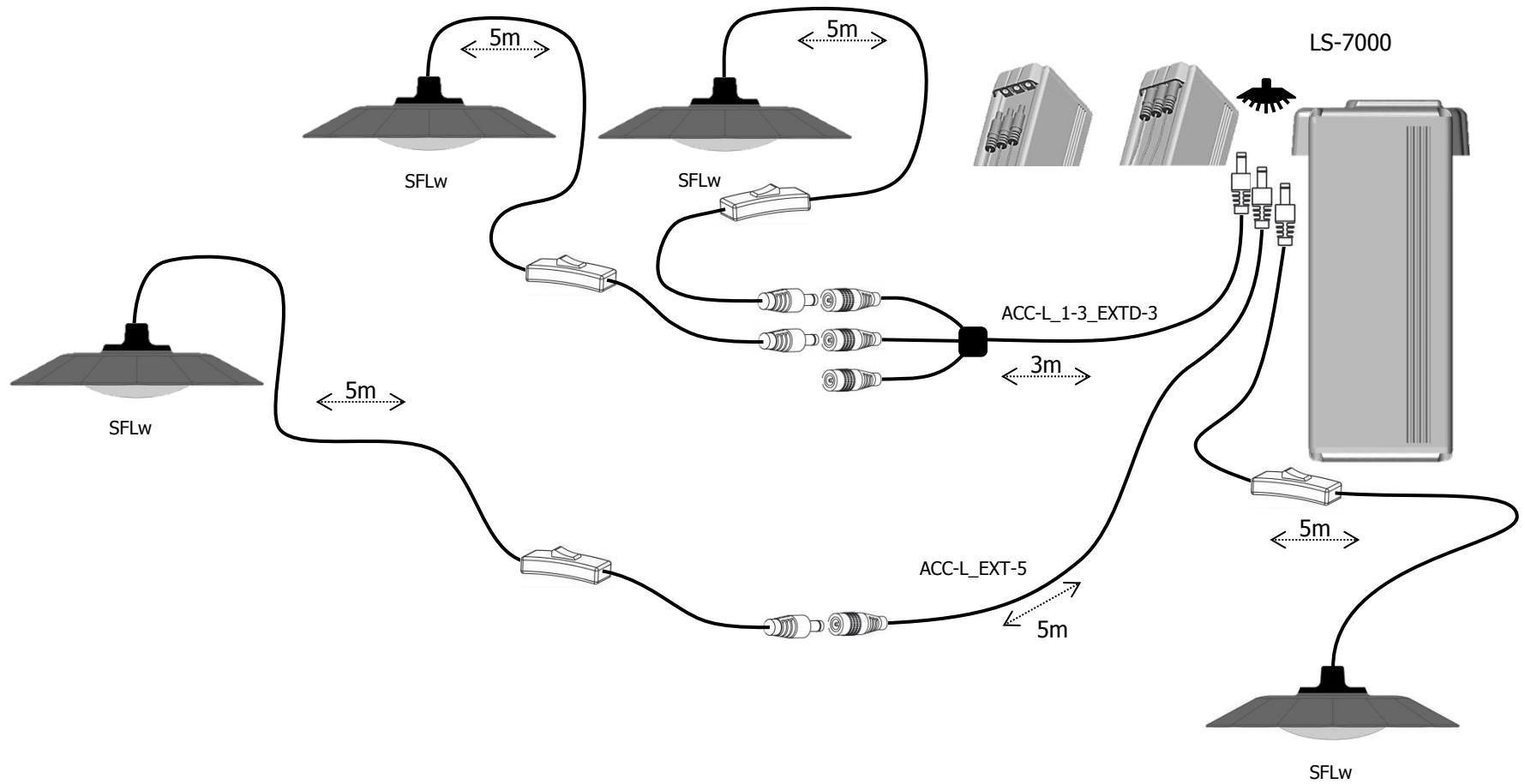
Solar Panel	SP010-12P
Kit content PCS	2
Nominal Peak Power	10W _p
Technology	Polycrystalline Solar Cell
Nominal Voltage (V _{mp})	18V
Nominal Current (I _{mp})	0.56A
Dimensions	403x288x17mm
Wire	5m with Barrel Plug
	All performance values under Standard Test Conditions STC: 1000W/m ² @25°C (picture similar to the panel)

Accessories:			
Extension Wire	ACC-L_1-3_EXTD-3	ACC-L_EXT-5	ACC-P_3-2Distri
Kit content pcs	1	1	1
Wire description	3m, 1 barrel plug and 3 socket	5m, 1 barrel plug and 1 socket	Panel distribution connector

Phone adapter set	
Kit content pcs:	1 Set (7 Adapter)
	USB/mobile phone charging adapter set (USB wire 1.5m, Nokia8210, Nokia 6101, Micro USB, Mini USB, KG90, G600/608, D808)

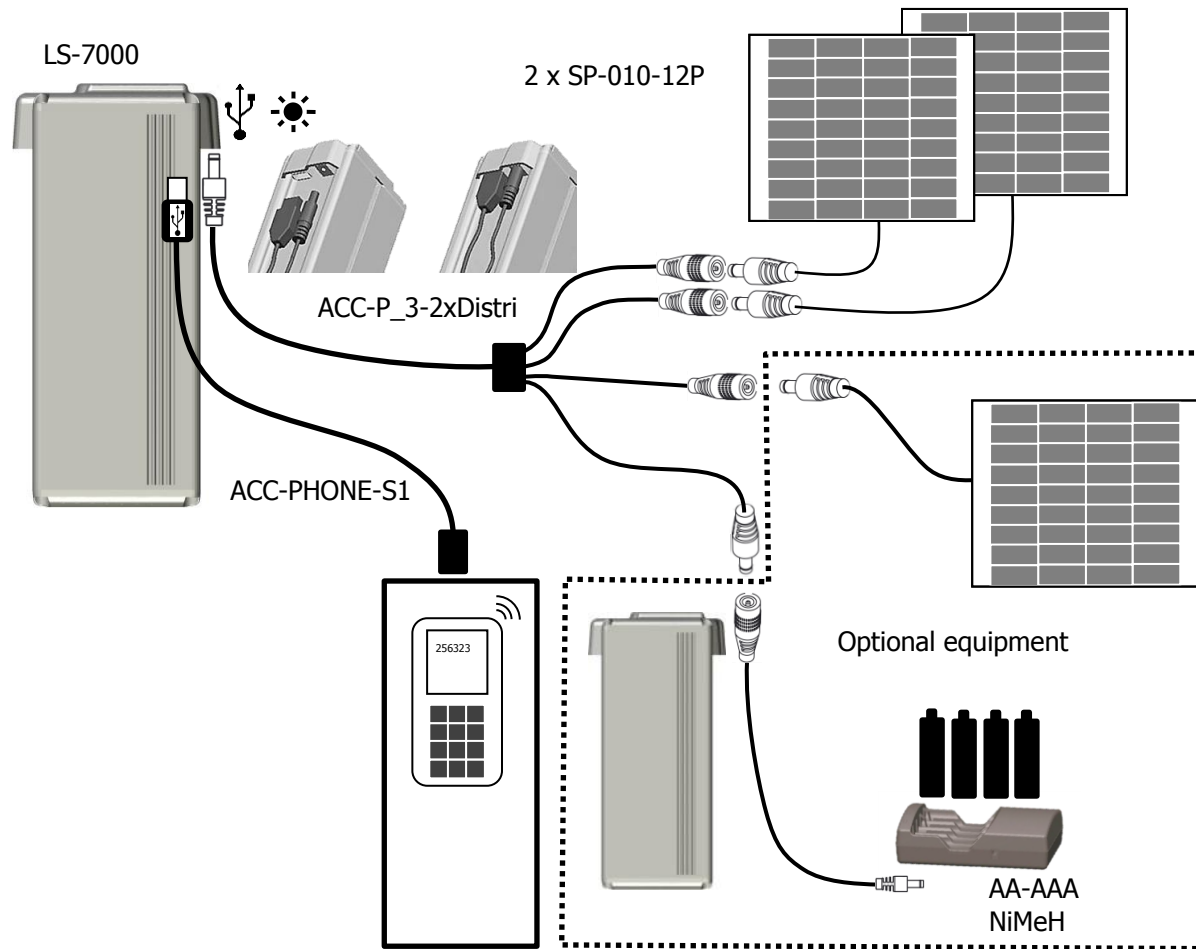
Solar Home System Kit LS7000-K4

Application Note:



Solar Home System Kit LS7000-K4

Application Note:



Solar Home System Kit LS7000-K4

Application Note:



Example Load Operation Time:

Loads:	Pcs:	Nominal Power:	Lumen Output:	Operation @ fully charged battery:	hours of light:	Energy consumption:	Operation @ Solar Radiation:	daily hours of light	Energy consumption:	Operation @ Solar Radiation:	daily hours of light:	Energy consumption:
							5.4 kWh/m2*d			4.0 kWh/m2*d		
SFL-12/02CW	2 pcs	2.0 W	200 lm	7.0 h	14.0 h	28.0 Wh	7.0 h	14.0 h	28.0 Wh	5.0 h	10.0 h	20.0 Wh
SFL-12/03CW	1 pcs	3.0 W	300 lm	7.0 h	7.0 h	21.0 Wh	7.0 h	7.0 h	21.0 Wh	4.0 h	4.0 h	12.0 Wh
SFL-12/05CW	1 pcs	5.0 W	500 lm	7.0 h	7.0 h	35.0 Wh	6.0 h	6.0 h	30.0 Wh	5.0 h	5.0 h	25.0 Wh
Mobile Phone	1 pcs	2.0 W		2.5 h	2.5 h	5.0 Wh	2.0 h	2.0 h	4.0 Wh	2.0 h	2.0 h	4.0 Wh
Total:	4 pcs				28.0 h	89.0 Wh		27.0 h	83.0 Wh		19.0 h	61.0 Wh

(Calculated values are for reference only, results will change according the environmental conditions and panel orientation)