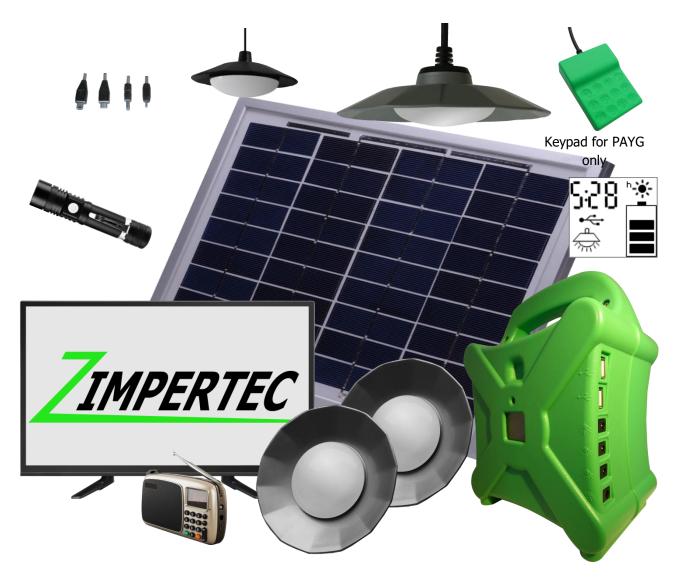


#### Litio Solar: LSX Solar Home System Kit



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 excesstemperature 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.

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V 2.6

#### **Solar Home System Kit**



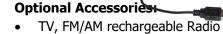
#### Litio Solar's Key features/optional accessories

- Long Life Lithium Iron Phosphate Battery System >2000 full cycles
- 12.8V nominal voltage: can operate standard 12V loads
- Rugged PC housing
- 89Wh/134Wh/179Wh/224Wh/268Wh 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 (load and panel side)
- Built in1 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 currently only for 30Wp)

#### Wiring options for flexible System setup

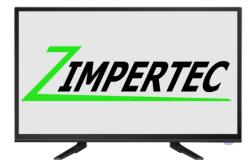
- Extension wires
- Distribution wires
- Cigar lighter socket adapter
- USB distributor





- NiMH battery charger for AA and AAA size batteries
- Laptop charger
- Radio battery adapter







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#### Solar Home System Kit LSX5.7-K041-Basic Electrification



**3 Lamps** Wiring diagram:

		Description:	charging current	load current	Rating:			Content:
Battery System LSX	System 1 Solar Ir can be co draw, se 3 pcs 1 outpu	n Iron Phosphate battery n with solar charger and LCD display nput, higher power solar panels nnected, device will limit power veral LSX can be connected to one panel; L2V Load Output, Number of ts can be increased by load distribution wire; charging output (max. 1.5A)	5 A	6 A	12,8 V	5,7 Ah	72 Wh	1 pc
Description of optional Light Points and other Loads:					Individual Lumen Output:			Content:
ting		Sunflower	2,0 W		280 lm			
Lighting	Light:	Equipped with <b>6m</b> wire and switch			Individual full battery runtime: 36 hours			3 pc
TV/ Media	Load:	Radio AM/FM	0,50 W			full battery time:	144 hours	1 pc
	Load:	Mobile Phone charging	5,00 W			full battery	14,4 hours	1 pc
	total light point power					time:	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6,00 W
	total load power (incl. Light points)							13,50 W
	All light points lumen output:							1040 lm
	All light points run time after typical day of solar charging							12,00 hours
	assume solar day: 5,0 KWh/m2/day							72,0 Wh/day
	extra Energy during day time: →						(2 Wh/day)	
	All lighting points + loads full battery runtime:							5,3 hours 12,0 hours
		All lighting points full battery runtime:						
Solar	Description: Polycrystalline Silicon Solar Panel Equipped with 8m wire				Rating: 20 Wp			Content:           1 pc           = 20 Wp
	charging current max.					-		
~	> Description:					Details	Content:	
Accessory		phone adapter			USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB			1 pc
	Va	alues are calculated and			-			
	Product Warranty: 3 years on materials and manufacturing defects Operation ambient temperature -20 to +50°C; All values at 25°C ambient temperature							

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# Solar Home System Kit LSX5.7-K041-Basic Electrification

**3 Lamps** Wiring diagram:



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# Solar Home System Kit LSX11.5-K042-Bright Light



8 Lamps Wiring diagram:

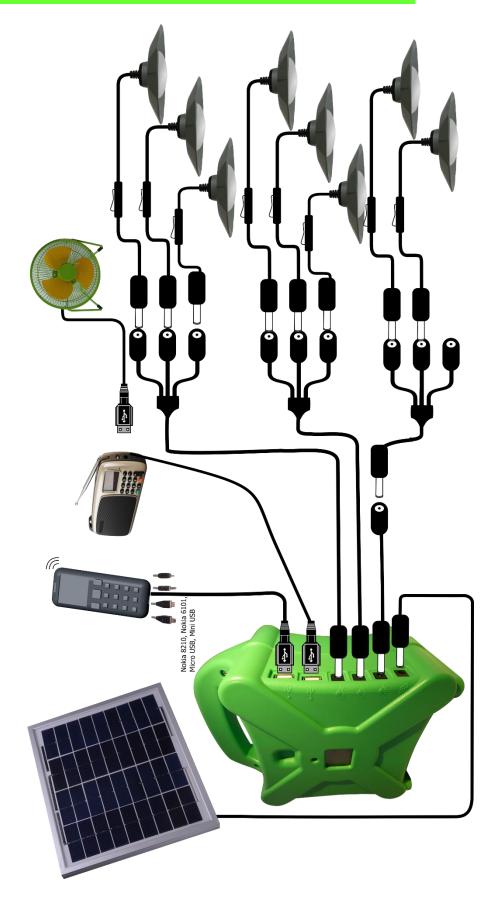
		Description:	charging current	load current		Rating:		Content:
Battery System LSX	solar ch 1 Solar panels ca limit pow co 3 pcs 12 outputs	Iron Phosphate battery system with harger and LCD display Input, higher power solar an be connected, device will er draw, several LSX can be nnected to one panel; 2V Load Output, Number of s can be increased by load distribution wire; harging output (max. 1.5A)	5 A	6 A	12,8 V	11,5 Ah	147 Wh	1 pc
	cription of optional Light Points and er Loads:				Individual Lumen Output:			Content:
Light- ing	Light:	Sunflower	2,0 W		280 lm		8 pc	
		Equipped with <b>6m</b> wire and switch			Individual full battery runtime: 74 hours			
TV/ Medi	Load:	Radio AM/FM	0,50 W			full battery time:	294 hours	1 pc
Fan	Load:	Desk Fan	3,00 W		Individual full battery runtime: 49,0 hours			1 pc
	Load:	Mobile Phone charging	5,00 W			full battery	29,4 hours	1 pc
		total light point powe	er		run	time:	25,1110015	16,00 W
		total load power (inc	ts)				26,50 W	
	All light points lumen output:							
	All light points run time after typical day of solar charging							<b>2440 lm</b> 9,19 hours
	assume solar day: 5,0 KWh/m2/day							147,0 Wh/day
	extra Energy during day time: $\rightarrow$						(38 Wh/day)	
	All lighting points + loads full b							5,5 hours
	All lighting points full battery runtime:							9,2 hours
L	Descri	ption:		Rating:			Content:	
Solar	Polycrystalline Silicon Solar Panel Equipped with 8m wire				50 Wp			1 pc = 50 Wp
	charging current max.				3,1 A			-
	Description:				Details			Content:
Accessory	Mobile	phone adapter		USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB			1 pc	
AQ	Load di	stribution wire		Length: 3m, 3 outputs Length: 5m			3 рс	
		tension wire			1 pc			
	Values are calculated and can variate according environment conditions							
	Product Warranty: 3 years on materials and manufacturing defects							
	Operation ambient temperature -20 to +50°C; All values at 25°C ambient temperature							

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# Solar Home System Kit LSX11.5-K042-Bright Light



8 Lamps Wiring diagram:



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# Solar Home System Kit LSX17.2-K042-Home TV



**4 Lamps** Wiring diagram:

	C	Description:	charging current	load current	Rating:			Content:	
Battery System LSX	bat solar cha 1 Solar I panels car limit powe com 3 pcs 12 outputs	Im Iron Phosphate tery system with arger and LCD display Input, higher power solar n be connected, device will r draw, several LSX can be nected to one panel; / Load Output, Number of can be increased by load distribution wire; arging output (max. 1.5A)	5 A	6 A	12,8 V	17,2 Ah	220 Wh	1 pc	
Description	Description of optional Light Points and other Loads: Individual Lumen Output:							Content:	
ing	Light:	ight: Sunflower 2,0 W 280 Im				110 hours	3 pc		
Lighting	Light:	Sunflower Equipped with <b>9m</b> wire and switch	3,0 W		420 lm			1 pc	
- ס	Load:	Radio AM/FM	1,00 W		Individual full battery runtime: 73 hours			1 pc	
TV/ Media	Load:	TV-24"	14,00 W		Individual full battery runtime: 220 hours			1 pc	
	Load:	Mobile Phone charging	5,00 W		Individual full	battery runtime:	16 hours	1 pc	
	Individual full battery runtime:     44,       total light point power     44,       total load power (incl. Light points)     44,						44,0 hours	9,00 W 31,00 W	
	All ligh	All light points lumen output:							
	All light points run time after typical day of solar charging							24,44 hours	
		assume	solar day: 5	, <b>0 KWh</b> /ı	m2/day			220,0 Wh/day	
	extra Energy during day time: → All lighting points + loads full battery runtime:							(60 Wh/day) 7,1 hours	
	All lighting points full battery runtime:							24,4 hours	
5	Descrip				Rating:	Content:			
Solar		stalline Silicon Solar P vith 8m wire		80 Wp			1 pc = 80 Wp		
	charging current max.					4,9 A	-		
>	Description:				Details			Content:	
Accessory	Mobile phone adapter				USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB			1 pc	
Ac		stribution wire		Lengt	2 pc				
	Load extension wire Length: 5m							1 pc	
	Values are calculated and can variate according environment conditions Product Warranty: 3 years on materials and manufacturing defects								
	Operation ambient temperature -20 to +50°C; All values at 25°C ambient temperature								
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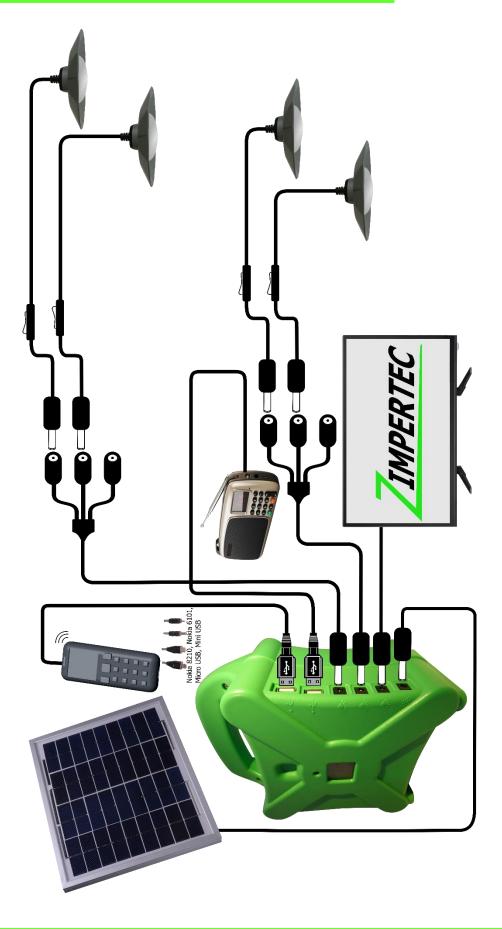
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# Solar Home System Kit LSX17.2-K042-Home TV



**4 Lamps** Wiring diagram:



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