

Litio Solar: LSX Solar Home System Kit

V 3.0 LSX C1



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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Page **1** / **8**

Solar Home System Kit





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Solar Home System Kit LSX5.5-C1A



3 Lamps

	Description:		charging current	load current	Rating:				Content:
	Lithium Iron Phos system v solar charger and 1 Solar Input, higher powe connected, device will limit LSX can be connecte 3 pcs 12V Load Output, Nu be increased by load o 2 USB charging outp	with I LCD display r solar panels can be power draw, several d to one panel; umber of outputs can distribution wire;	5 A	6 A	12.8 V	5.5 Ah	70 Wh		1 pc
Des	cription of optional Lig	ht Points and othe	er Loads:		Individu	ial Lumer	Output:		Content:
	Light	Sunflower	2 W	6.0 h	280 lm				2 = 2
	Light:	Equipped with 5m wire and s	switch	36 Wh		full battery time:	35 hours		3 pc
	Load:	Radio AM/FM	0.50 W	10.0 h					1 nc
	LUdu.			5 Wh					1 pc
	Load:	Mobile Phone charging	5.00 W	1.0 h					1 pc
				5 Wh					
		total light point	power						6.00 W
		total load power	r (incl. Light	: points)					11.50 W
	All light points lur	nen output:							840 lm
	All light	points run time	after typica	I day of so	olar char	ging			11.67 hours
	assume solar day: 5.0 kWh/m²/day								70.0 Wh/day
						rgy during d	ay time: \rightarrow		(4 Wh/day)
	A	I lighting points		1					6.1 hours
		All lighting poi	nts full batt	ery runtin	ne:				11.7 hours

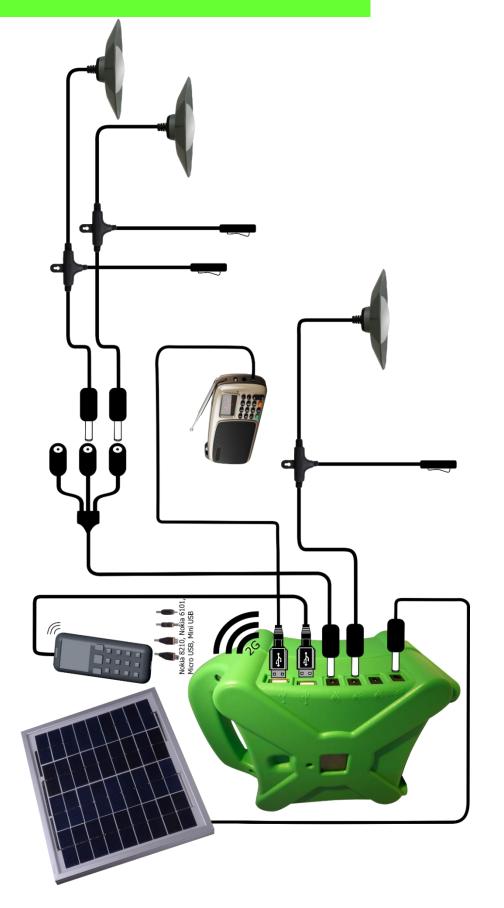
L	Description:			Rating:		Content:
Solar	Polycrystalline Silicon Solar Panel			20 Wp	-	1 pc
•	Equipped with 6m wire			20 119		= 20 Wp
	Description:			Details	5	Content:
Accessory	Mobile phone adapter	210, Nok Mini USI		1 pc		
Ö	Load distribution wire		Length: 3m, 3 outputs			1 pc
A	Remote Connectivity		2G Communication			Option
	PAYG-Ready with Luzhy platform					yes
	Values are calculated and can variate	according en	vironment	conditions	5	
	Product Warranty: 3 years on mater	rials and mar	nufacturing	g defects		
	Operation ambient temperature -20 to +50°C	; All values a	at 25°C am	nbient temp	perature	
				1	1 1	
TTL	consumption per day:	46.0	Wh			
Bat	tery autonomy at full battery:	1.52	days			
Dai	ly harvest @ 5kWh/m²/Day up to:	74 \	Nh			
Daily harvest @ 3kWh/m ² /Day up to:			Nh			

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Page 3 / 8

Solar Home System Kit LSX5.5-C1A 3 Lamps





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Page 4 / 8

Solar Home System Kit LSX07-C1B



3 Lamps

Description:	charging current	load current		Rating:		Content:
Lithium Iron Phosphate battery system with solar charger and LCD display 1 Solar Input, higher power solar panels can be connected, device will limit power draw, several LSX can be connected to one panel; 3 pcs 12V Load Output, Number of outputs can be increased by load distribution wire; 2 USB charging output (max. 1.5A)	5 A	6 A	12.8 V	7.0 Ah	89 Wh	1 pc

cription of optional Light Points and other Loads:				Individual Lumen	Output:		Content:
1:	Sunflower	2 W	8.0 h	280 lm			2
Light:	Equipped with 5m wire and switch		32 Wh	Individual full battery runtime:	45 hours		2 рс
Liahti	Sunflower	3 W		420 lm			1 no
Light:	Equipped with 5m wire and switch			Individual full battery runtime:	30 hours		1 pc
Loodi	Radio AM/FM	0.50 W	10.0 h				1
Load:			5 Wh	Individual full battery runtime:	178 hours		1 pc
Load:	Mobile Phone charging	5.00 W	1.0 h				1 pc
		·	5 Wh	Individual full battery runtime:	17.8 hours		•
	total light point power						7.0 W
total load power (incl. Light points)							
All ligi	nt points lumen out	put:					980 lm
	All light points run	time after ty	pical day of	of solar charging			12.7 hours
	assume se	olar day: 5.	0 KWh/r	n2/day			89.0 Wh/da
	extra Energy during day time: →						(22 Wh/day
All lighting points full battery runtime:							12.7 hours

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

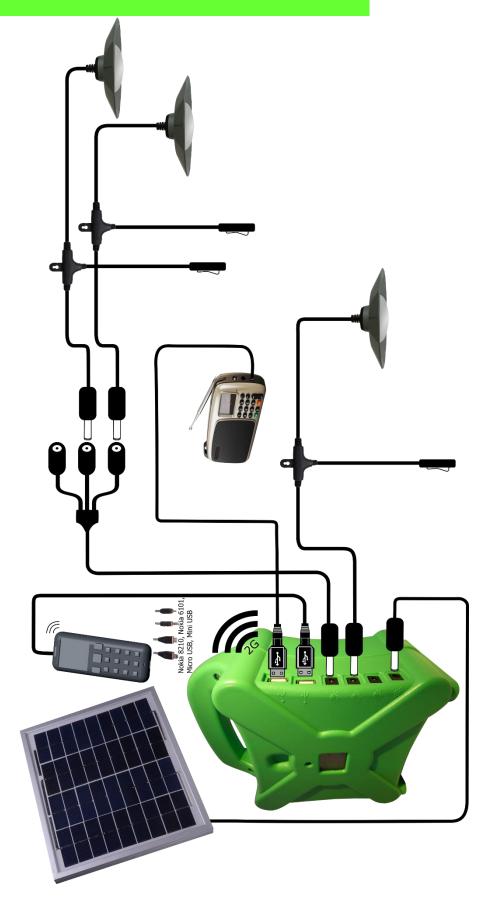
	Description:		Details		Content:	
ccessory	Mobile phone adapter	Adapters: N	USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB			
e	Load distribution wire		Length: 3m, 3 outputs		1 pc	
Ac	Remote Connectivity		2G Communication		Option	
	PAYG-Ready with Luzhy platform				yes	
	Values are calculated and can va	riate according	g environment conditions			
	Product Warranty: 3 years on i	materials and	manufacturing defects			
	Operation ambient temperature -20 to +	-50°C; All valu	es at 25°C ambient temperature			
TTI	consumption per day:	66.0 Wh				
Bat	ttery autonomy at full battery:	1.35 days				
Da	ily harvest @ 5kWh/m2/Day up to:	111 Wh				
Da	ily harvest @ 3kWh/m2/Day up to:		67 Wh			

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Page 5 / 8

Solar Home System Kit LSX07-C1B 3 Lamps





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Page 6 / 8

Solar Home System Kit LSX11-C1c



4 Lamps

Description:	charging current	load current	Rating:		Content:	
Lithium Iron Phosphate battery system with solar charger and LCD display 1 Solar Input, higher power solar panels can be connected, device will limit power draw, several LSX can be connected to one panel; 3 pcs 12V Load Output, Number of outputs can be increased by load distribution wire; 2 USB charging output (max. 1.5A)	5 A	6 A	12.8V	11.0 Ah	140Wh	1 pc

Description of optional Light Points and other Loads: Individual Lumen Output:							
1:	Sunflower	2 W	9.0 h	280 lm		2	
Light:	Equipped with 5m wire and switch		36 Wh	Individual full battery runtime:	70 hours	2 pc	
1:	Sunflower	3 W	8.0 h	420 lm		2	
Light:	Equipped with 5m wire and switch		48 Wh	Individual full battery runtime:	47 hours	2 pc	
Landa	Radio AM/FM	0.50 W	10.0 h				
Load:			5 Wh	Individual full battery runtime:	280 hours	1 pc	
Load:	Mobile Phone charging	5.00 W	1.0 h			1 pc	
			5 Wh	Individual full battery runtime:	28.0 hours		
total light point power							
total load power (incl. Light points)							

All light points lumen output:	1400 lm
All light points run time after typical day of solar charging	14.0 hours
assume solar day: 5.0 kWh/m2/day	140.0 Wh/day
extra Energy during day time: \rightarrow	(45 Wh/day)
All lighting points full battery runtime:	14.0 hours

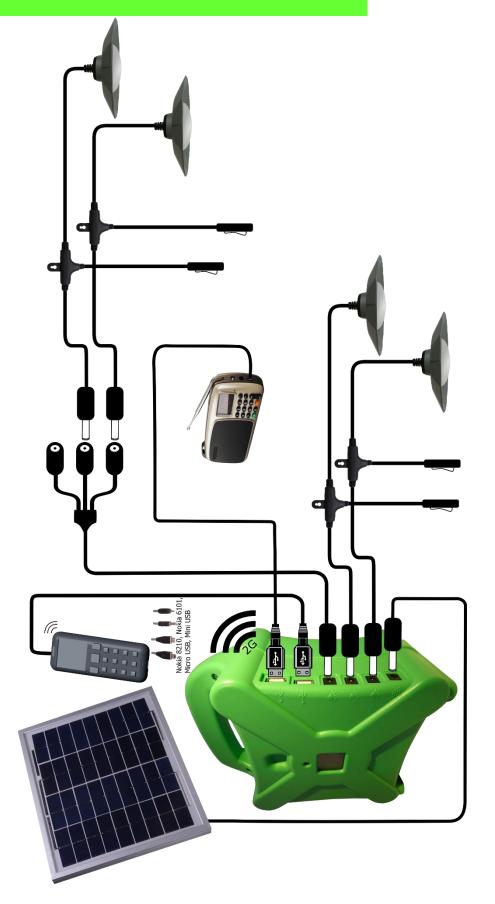
L	Description:		Rating:		Content:
Sola	Polycrystalline Silicon Solar Panel Equipped with 6m wire		50 Wp		1 pc = 50 Wp
	Description:		Details		Content:
ccessory	Mobile phone adapter	Adapters:	USB wire, 1.5m Adapters: Nokia8210, Nokia 6101, Micro USB, Mini USB		1 pc
U U	Load distribution wire	Length: 3m, 3 outputs			1 pc
A	Remote Connectivity		2G Communication		Option
	PAYG-Ready with Luzhy platform				yes
	Values are calculated and can vari	<u> </u>			
	Product Warranty: 3 years on m				
	Operation ambient temperature -20 to +5	0°C; All value	es at 25°C ambient temperature		
TTI	consumption per day:		94.0 Wh		
Bat	Battery autonomy at full battery:		1.49 days		
Dai	ily harvest @ 5kWh/m2/Day up to:		185 Wh		
Dai	ily harvest @ 3kWh/m2/Day up to:		111 Wh		

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Page 7 / 8

Solar Home System Kit LSX11-C1c 4 Lamps





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Page 8 / 8