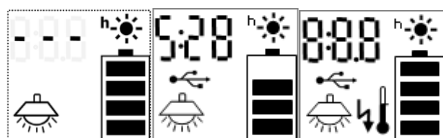


LSX-Litio-Solar Home System



- Long life Lithium (**LiFePO4**) rechargeable battery (**2000 full cycles**)
- Built in solar charger with **Special MPPT**, which allows parallel charging of several LSX by one Solar panel, Load paralleling possible for system capacity increase.
- Rugged PC housing, portable
- **LCD** display with backlight



- LED warning signal
- Touch switch for LCD backlight on and low power activation
- 3pcs load outlet connectors
- 2 pcs 5V USB outlets for charging mobile phone
- **Pay As You Go** functionality built in (can be activated on demand), **integrated Keypad on request** for token application
- One-year **Datalogger** built in



Litio Solar LSX is designed for Solar Home and portable power applications. Available with various storage capacity for operating lamps, small TVs and other standard 12VDC appliances. The built in LCD display allows the user to get detailed information on remaining operation time of the connected loads until the battery is empty, Battery SOC, Charging and Discharging status. The built in charging algorithm with its single cell monitoring ensures optimized operation of the long life LiFePO4 battery under all environmental conditions. The USB charging outlets allow many 5V USB devices to be recharged or operated. Systems with MPPT can be paralleled on Panel/Charging side and/or on Load side without problems for capacity increase or Charging stations. Zimpertec's input power limit hardware/software allows Solar panels to be connected, bigger than nominal power, for faster charging at low radiation or areas with lots of shading (Forest).

Technical Data:	LSX077	LSX115	LSX153	LSX192	LSX230
Nominal System Voltage:	12.8V				
Battery type:	LIFEPO4 (LFP)				
Battery capacity:	7.7Ah	11.5Ah	15.3Ah	19.2Ah	23.0Ah
Charging current:	5A				
Battery Energy:	98.6Wh	147.2Wh	195.8Wh	245.8Wh	294.4Wh
Special MPPT function and Load output:	Solar Panel: Max 25Voc, no power limits, bigger solar panels can be connected for efficient charging at lower sunlight and several LS units can be connected to one panel for charging in parallel. Load output of several LSX can be in parallel too for increasing System Capacity/ grow the system.				
Load current:	5.7A				
BMS	Balancing, single cell monitoring and controlling, battery temperature monitoring				
End of Charge Voltage:	3.55V/cell				
Low Voltage Disconnect:	2.65V/cell				
Low Voltage Reconnect:	Recharge battery >10%				
Self-consumption:	idle mode: < 800uA / shipping mode < 20uA				
Working temperature:	-20 ... +50°C				
USB outlet:	5V/1.5A (short time ca. 4A)				
Size:	240mm*183mm*126mm				
Protection:	IP42, overload-, short-circuit-, over-temperature-, surge-, reverse polarity protection, PCBA with conformal coating				
Display:	LCD + LED				
Connector type:	Panel: 1 Barrel (5.5/2.5mm) - Load: 3 Barrel (4.75/1.7mm) - USB: 2*USB-A				
All values valid at 25°C					