

LS-DC-25.6V-50Ah-40-10-80

Compact DC-Solar Home System with LFP-Battery

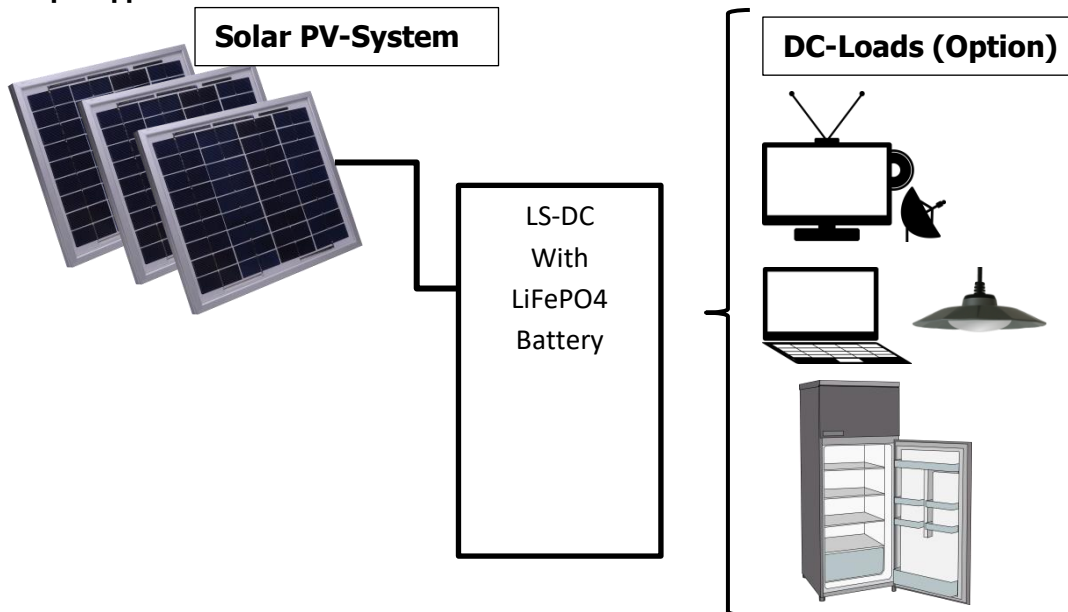


- **Integrated Solar PWM Charge controller with single cell monitoring and controlling (LiFePO4 only)**
- **LCD Display, clear and easy to read system status**
- **Controller for LiFePO4**
- **Integrated BMS with Cell-Balancing and Battery protection for LiFePO4**
- **Option: 2 DC Load output 24V**
- **Options available**
 - **Plug & Play**
 - **Pay as you Go (optional with Keypad)**



Compact DC Solar Home System with integrated Charge- and Battery-Control/Monitoring Systems for LiFePO4-Battery therefore ideal for solar applications. The integrated PWM Charge controller with Zimpertec unique single cell monitoring and control for optimizing the battery operation can ensure the best System performance. The ready to use system makes the product useful for many applications, which can significantly reduce the service, maintenance and installation cost.

Example Application:



LS-DC-25.6V-50Ah-40-10-80

Compact DC-Solar Home System with LFP-Battery



Technical Data:

Battery:

LS-DC-25.6V-1.28kWh	
Battery type:	LiFePO4 cells
Nominal Voltage:	25.6V
Battery capacity	50Ah
Battery Storage	1.28kWh
Charging Voltage:	<29.2V
Low Battery disconnect Voltage:	22V
Battery cycle life:	3000cycles (25°C, 0.5C) at 100% DOD
Max. Load Current	80A

Solar PWM Charge Charger:

PV Open Circuit Voltage	Voc Max. 50 VDC
PV Power	Max. 1200Wp (2*36cells in series or 72 cell panels) Vmpp ca.36V
PV Charge Current	40A, (other options on request)
Panel connection:	4mm2 wire with MC4 terminal
Display:	LCD display, Keypad for PAYG application
USB charger output	no

DC Load output1:

Voltage:	Battery voltage range: 22V to 29.2V
Load Current:	Max. 10A
Protection:	Short Circuit, Overload, Inductive Load protection
Connection:	Screw terminal

DC Load output:2

Voltage:	Battery voltage range: 22V to 29.2V
Load Current:	Max. 80A
Protection:	Short Circuit, Overload, Inductive Load protection
Connection:	Screw terminal

Case:

Box type:	Steel box
Dimensions	Ca. 300*400*210mm
Protection	IP42

Environment:

Humidity	5% to 95% non-condensing
Operating Temperature	-20 to +45°C
Storage Temperature	-15 to 50°C

Safety Equipment:

Varistor Panel input	Charge Controller integrated
Inductive load	Freewheeling Diode at Load output
Temperature	Battery and controller overtemperature protection

Product Warranty: 3 years on materials and manufacturing defects