

LS-DC-12.8V_20/20-100Ah-1.28kWh

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 12V with individual LVD setting (factory configuration)**
- **Options available**
 - **Plug & Play**
 - **Pay as you Go (optional with Keypad)**

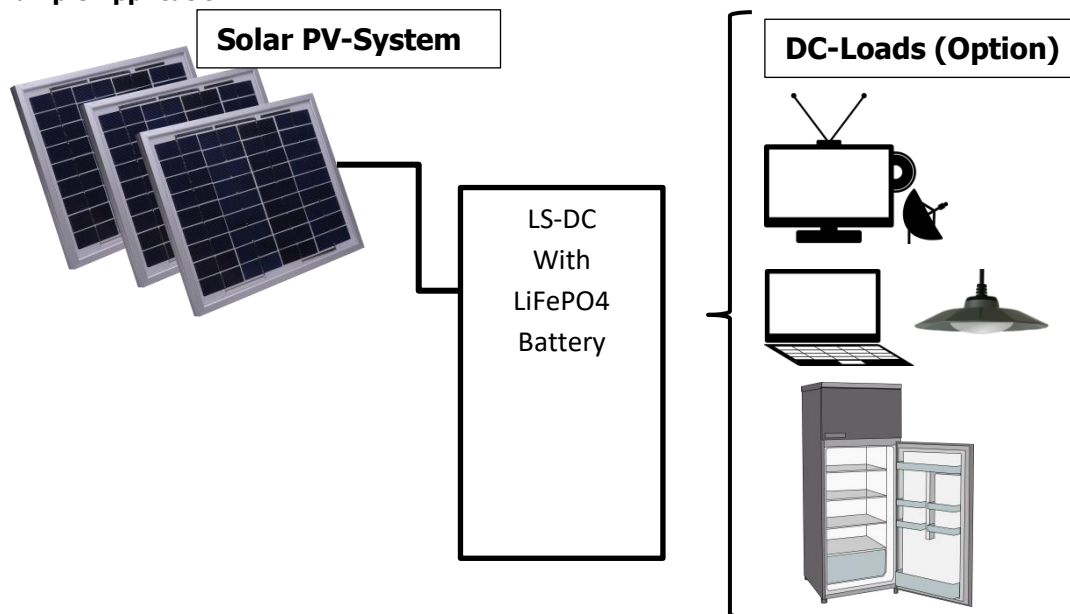


Compact DC Solar Home System with integrated Charge- and Battery-Control/Monitoring Systems for LiFePO4-Battery therefore ideal for solar applications.

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:



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Technical Data:

Battery:

LS-DC-12.8V 100Ah-20/20	
Battery type:	LiFePO4 cells
Nominal Voltage:	12.8V
Battery capacity	100Ah
Battery Storage	1.28kWh
Charging Voltage:	<14.6V (3.55V/cell)
Low Battery disconnect Voltage:	11V (2.75/cell)
Battery cycle life:	3000cycles (25°C, 0.5C) at 100% DOD
Max. Load Current	20A

Solar PWM Charge Charger:

PV Open Circuit Voltage	Voc Max. 25 VDC
PV Power	Max. 360Wp (36cells in series) Vmpp ca.18V, Voc ca. 22V
PV Charge Current	20A, (other options on request)
Panel connection:	Solar Terminal 4mm
Display:	LCD display, Keypad for PAYG application (option)
USB charger output	5V/1.5A

DC Load output1:

Voltage:	Battery voltage range: 11V to 14.6V
Load Current:	Max. 20A (Load 1 + Load 2 current = max 20A)
Protection:	Short Circuit, Overload, Inductive Load protection
Connection:	Screw terminal

DC Load output:2

Option

Voltage:	Battery voltage range: 11V to 14.6V
Load Current:	Max. 20A (Load 1 + Load 2 current = max 20A)
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