

LS-AC-1.6kWAC/x.xxkWh

Compact AC-Solar Home System



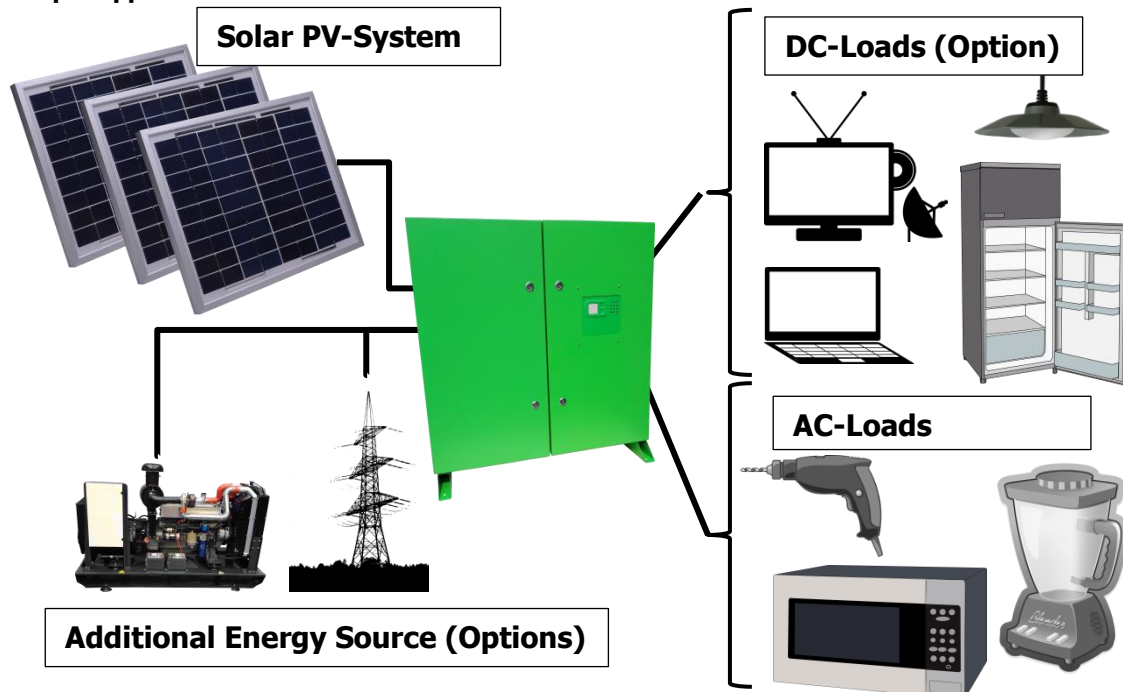
LiFePO4 battery 1.9 to 5.1kWh capacity (25.6V)

- Integrated Solar MPPT Charge controller with single cell monitoring and controlling
- Long Battery life time (>3000 cycles)
- Integrated BMS with Cell-Balancing
- AC Load output 1.6kW/220V/60Hz
- 24V DC output for operating DC loads
- Plug & Play (with 2 AC socket)
- AC charger input for Generator or similar power source - AC-Backup-function
- Protections:
 - Earth Leakage protection
 - Air-Breaker for AC distribution
 - Surge Arrestor (AC output, AC input, Panel input)
- Options available
 - Grounding Accessories
 - Ground rod
 - Ground connection
 - Potential equalization rail
 - Daily consumption limit
 - Pay as you Go



The **LiFePO4 Battery** for the **Compact AC Solar Home System** is using one of the longest lifetime Lithium technologies and therefore ideal for solar applications. Its excellent behavior at low SOC conditions can give best performance at low sun conditions and allow making use of the full capacity. Additional the wide operating temperature range makes it ideal for most areas in the world. The Integrated MPPT Charge controller and AC inverter with its unique single cell monitoring 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 significant reduce the service, maintenance and installation cost.

Example Application:



Datasheet: DATASHEET-LS-AC-1.6KWAC-X.XKWH-2019-06-28-V1.9 Subject to change without notice

Technical Data:

Type:	LS-AC 1.6kW- 1.92kWh	LS-AC 1.6kW- 2.56kWh	LS-AC 1.6kW- 3.20kWh	LS-AC 1.6kW- 3.84kWh	LS-AC 1.6kW- 4.48kWh	LS-AC 1.6kW - 5.12kWh
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Battery:

Battery type:	LiFePO4					
Nominal Voltage:	25.6V					
Capacity @ 0.25C, 25°C:	1.92kWh	2.56kWh	3.2kWh	3.84kWh	4.48kWh	5.12kWh
	75Ah	100Ah	125Ah	150Ah	175Ah	200Ah
Charging Voltage:	<29.2V					
Low Battery disconnect Voltage:	>22V					
Max. Discharge Current:	80A					
Cycle Life:	3000 full cycles					

Inverter Output:

Rated Power	2000VA/1600W					
Surge Power	4000VA					
Waveform	Pure sine wave					
AC output Voltage	110/120VAC±5% or 230VAC±5% at battery operation (User selectable)					
Inverter Efficiency	Max. 90% - 93%					
Transfer Time for switch over form external AC source to Inverter (option)	AC-Backup function 10ms(For Personal Computers) 20ms(For Home Appliances)					
Output terminal	AC socket Type on request					

Solar MPPT Charger:

PV Open Circuit Voltage	Max. 145VDC					
PV MPPT Voltage	50 to 120VDC					
PV Power	Max. 1.5kW					
Standby Power Consumption	2W					
PV Charge Current	Max. 60A					
Efficiency	Max. 98%					
Input Terminals:	2 sets of 4mm Solar Terminal (+/- input)					

AC-Charger: (Option)

AC-Input	230V,50/60Hz, 10A					
Charging current	20A					
Input Terminals:	AC socket					

DC Load output:

Voltage:	Battery voltage range: 22V to 29.2V					
Load Current:	Max. 10A					
Protection:	Short Circuit, Overload, Inductive Load protection					
Terminal:	Cigar lighter socket					

Case:

Dimensions	ca. 85*80*30cm					
Weight ca.	68kg	74kg	79kg	85kg	90kg	96kg
Protection	IP20					

Environment:

Humidity	5% to 95% non-condensing					
Operating Temperature	-20 to 50°C					
Storage Temperature	-15 to 60°C					

Inverter/charger fulfill following Test Standards:

EN61000-6-4:2007+A1: 2011/ EN61000-6-2: 2005/ EN61000-3-2: 2014/ EN61000-3-3: 2013

EN62109-1:2010