

LS-AC-xxkW-xxkWh

Plug & Play AC-Solar Home System



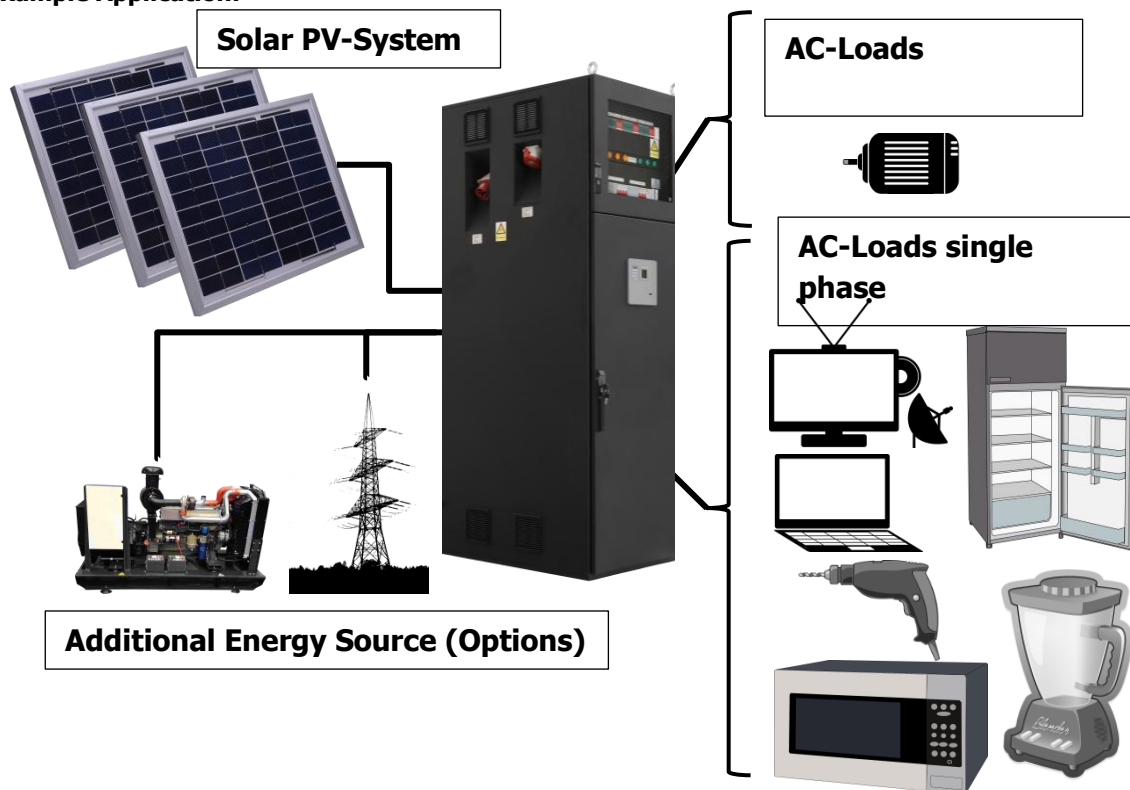
- LiFePO4 battery 51.2V, 14/28/42kWh capacity related to Product version
- Integrated Solar MPPT Charge controller with single cell monitoring and controlling
- Long Battery life time (>7000 cycles at 80% DOD)
- Each battery rack with integrated BMS with Cell-Balancing
- AC Load output 5kW/15kW related to Product version
- Plug & Play (with AC-IN and AC-out socket)
- AC charger input for Generator or similar power source
- AC-Backup-function
- Protections:
 - Earth Leakage protection
 - Air-Breaker for AC distribution
 - Surge Arrester (AC output, AC input, Panel input)
- Options available
 - Grounding Accessories
 - Ground rod/ Ground connection
 - Potential equalization rail
 - Pay as you Go



System box appearance can modify

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 controllers 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 significantly reduce the service, maintenance and installation cost.

Example Application:



Datasheet: DATASHEET-REZILIZ-XXKWAC-2026-03-31A Subject to change without notice

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Technical Data:

Type:	LS-AC-15kW-42kWh	LS-AC-15kW-28kWh	LS-AC-5kW-14kWh
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Battery:

Battery type:	LiFePO4		
Nominal Voltage:	51.2V		
Battery storage Energy	42 kWh (3*14kWh) @ 0.25C, 25°C	28 kWh (2*14kWh) @ 0.25C, 25°C	14 kWh (1*14kWh) @ 0.25C, 25°C
Nominal Battery capacity	3*314Ah	2*314Ah	1*314Ah
Charging Voltage:	<58.4V		
Battery LVD	>44.8V		
Cycle Life:	>7000 cycles at 80%DOD, 0.5C, 25°C		

Inverter Output:

Rated Power	15kW (3*5kW)	5kW
Surge Power	30kW	10kW
Waveform	Pure sine wave	
AC output Voltage	3*230VAC±5% at battery operation 400V/50Hz/3-phase star connection (no delta load connection)	230VAC±5% at battery operation
Inverter Efficiency	Max. 90%	
Transfer Time	AC-Backup function: switch over from external AC source to Inverter, 10ms (For Personal Computers), 20ms (For Home Appliances)	
Output terminal	3 phase CEE 32A AC socket	1 Phase CEE 32A Socket

Solar MPPT Charger:

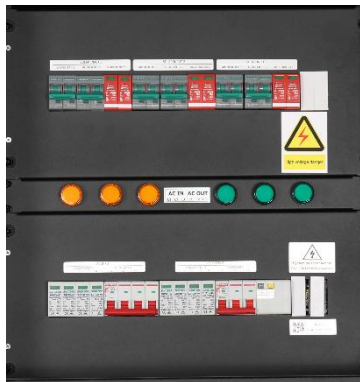
PV Open Circuit Voltage	Max. 450VDC	
PV MPPT Voltage	130 to 430VDC	
Number of MPPT Chargers:	3	1
PV Power	max. 6kWp/max 27A each MPPT input, total max. 18kWp	6kWp/max 27A MPPT input
PV Battery Charge Current	Max. 100A each MPPT, ttl 300A	Max. 100A
Input Terminals:	2 sets of 4mm Solar Terminal (+/- input) for each MPPT Charger for two parallel strings, Total 6 sets of terminals	2 sets of 4mm Solar Terminal (+/- input)

AC-Charger:

AC-Input	400V/50Hz/3-phase +/-5%	230V/50Hz/1-phase
Battery Charging current	3*80A	1*80A
Input Terminals:	3 Phase CEE 32A AC socket	1 Phase CEE 32A Socket

Environment:

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



Comment: Appearance can change without notice! Example picture for 3 phase type