



# AlphaESS-LC-3KW

BATTERY SYSTEM DESIGNED FOR PV HOUSEHOLD APPLICATION.



Inverter

Battery



# SMARTEN YOUR ENERGY



## DATASHEET

### System Configuration

Installed Capacity	9.6 KWh	19.2 KWh
Connection	4S1P	4S2P
Usable Capacity	4.8 KWh	9.6 KWh
DoD	50%	
Warranty	5 Years	

### Inverter

Model	AEV-3048
Dimension, D X W X H	170 x 415 x 420 mm
Net Weight	15.5 kg

### Interface

Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available

### Operation Condition

Humidity	0 - 90% RH (No condensing)
Operating Temperature	0 To 40 °C
Protection Class	IP21

### Standards & Guidelines

Grid Regulation	VDE4105, VDE0126-1-1+A1, AS4777.2 / .3, IEC62109-2
Safety	IEC62109-1&-2, AS3100, IEC62040-1
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-11, EN61000-3-12

### Battery

Model	6-CNFJ-200
Battery Type	Lead Crystal
System Weight	Approx. 62 kg
Outline Dimensions	240× 533× 224 mm
Protection Level	IP50

### Electrical

Energy Capacity	2.4 KWh
DOD	50%
Usable Capacity	1.2 KWh
Cycle Life	1500 @80%
Nominal Voltage	12 V
Internal Resistance	≤3.5 mΩ
Expected Lifetime	10 Years

### Operation

Max. Charge Current	60A (0.3C)
Max. Discharge Current	60A (0.3C)
Max. Charge Current (OFF-GRID)	60 A (0.3C)
Max. Discharge Current (OFF-GRID)	120 A (0.6C)
Max. Discharge Pulse Current (10S)	2000 A (5s)
Self-discharge after 90 days	< 10%
Operating Temperature Range	-20 °C To 50 °C
Transport Or Storage Temperature Range	-40 °C To 60 °C
Humidity	5% - 94%

Alpha Energy Storage Solution Co., Ltd.

**China:**  
Tel. 0086-(0)512-68287609  
Fax. 0086-(0)512-68280679  
E-mail. info@alpha-ess.com  
www.alpha-ess.com  
1-B302, Creative Industrial Park, No. 328, Xinghu Street,  
SIP Suzhou.

**Germany:**  
Tel. +49 176 - 999 2 88 66  
E-mail. europe@alpha-ess.com  
www.alpha-ess.de  
Paul-Ehrlich-Straße 1 bis 1c, 63225 Langen

**Australia:**  
Tel. +61-(0)412 953 647  
E-mail. australia@alpha-ess.com  
www.alpha-ess.com.au  
Unit 601 68Mcevoy St, Alexandria Nsw 2015, Australia