



APstorage Sea Family ELS Series PCS

ELS-3K for residential storage

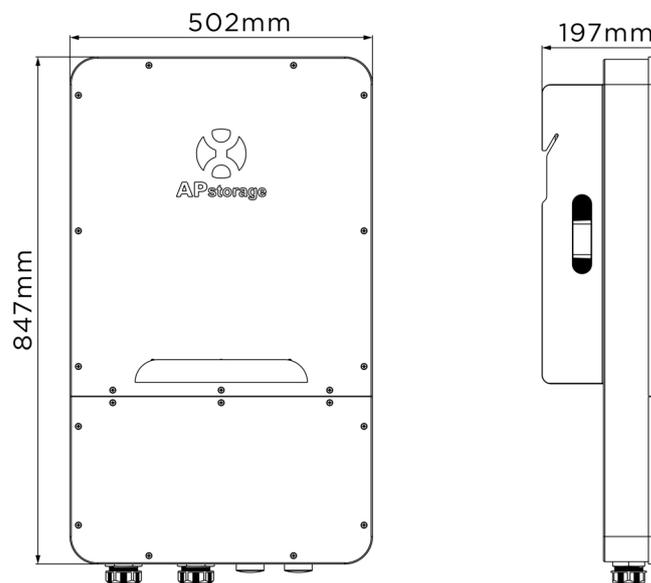
- Nominal Power Rating up to 3680VA
- Peak Backup Power up to 5520VA
- Max Efficiency up to 96.5%
- 48V Low Battery Voltage Input

PRODUCT FEATURES

APstorage introduces its 1st generation of smart Power Conversion Systems with the ELS-3K battery charger solution.

Together with compatible low voltage batteries connected, it becomes the ideal AC coupling storage solution for residential PV applications. With automatic energy management features based on intelligent software and integrated monitoring, system owners can choose between back-up, self-consumption and peak valley time modes to secure critical loads during power outages and maximize energy savings for their houses.

DIMENSIONS



Model
Region

ELS-3K
EMEA

General Specifications

Dimensions W/H/D	847×502×197mm
Weight	30kg
Maximum Efficiency	96.5%
Temperature Range	-25°C-65°C (-13°F-149°F)
Ingress Protection	IP65
Relative Humidity	10%-90%
Ventilation	Natural convection
Communication Ports	Ethernet/ Wireless/RS485/CAN
Zigbee Frequency Range	2405MHz - 2480MHz
Zigbee Maximum Power	8.94 dBm
Wi-Fi Frequency Range	2412MHz - 2472MHz
Wi-Fi Maximum Power	16.97 dBm
Parallel Function	Yes
Grid Regulation	VDE-AR-N 4105; TOR Erzeuger; OVE_Richtlinie_R_25; XP C15-712-3; VFR; Pending: CEI 0-21
Safety	IEC/EN 62477-1
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4

Battery Input/Output Data

DC Battery Input Voltage	40.0-60.0VDC
Battery Capacity	50-800Ah
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Max Continuous Charge Current	77A
Max Continuous Discharge Current	77A

AC Output Data (On-grid)

Max. Continuous Output Power	3680VA
Max. Continuous Output Current	16A
Max. Continuous Current From Utility Grid	32A
Nominal Output Voltage	230V
Adjustable Output Voltage Range	184-253V ⁽¹⁾
Nominal Output Frequency/Range	50Hz/47.5-51.5Hz ⁽¹⁾
Output Power Factor	>0.99(Adjustable from 0.8 leading to 0.8 lagging)
THD	<3%
Grid Connection	Single-phase

AC Output Data (Backup)

Max. Output Apparent Power	3680VA
Peak Output Apparent Power	5520VA
Max. Output Current	16A
Nominal Output Voltage	230V
Nominal Output Frequency	50Hz

(1) Voltage/frequency range can be adjusted if required by local utility

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