



APstorage Sea Family ELS Series PCS

ELS-5K for residential storage

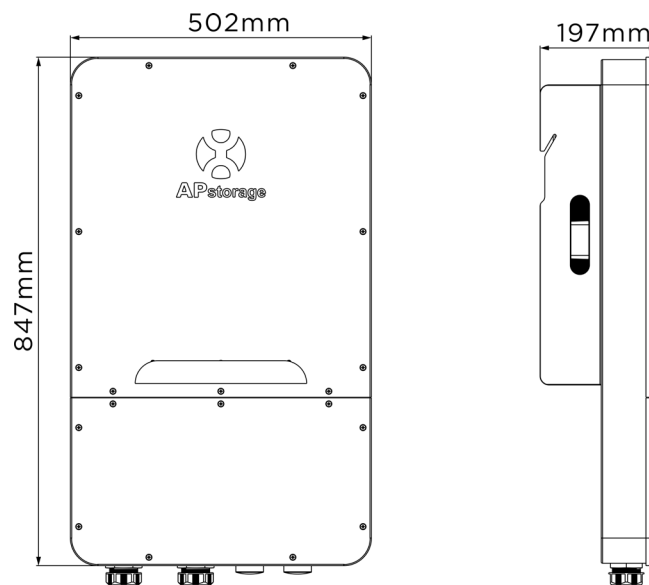
- Nominal Power Rating up to 5000VA
- Peak Backup Power up to 7500VA
- Max Efficiency up to 96.5%
- 48V Low Battery Voltage Input

PRODUCT FEATURES

APstorage introduces its 1st generation of smart Power Conversion Systems with the ELS-5K 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

ELS-5K

Region

EU

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; Pending:CEI 0-21;TORErzeuger; OVE_Richtlinie_R_25; AS/NZS 4777.2
Safety	IEC/EN 62477-1; Pending: IEC 62040-1; IEC/EN 62109-1/-2
EMC/EMI Protection	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	100A/96A(DE)
Max Continuous Discharge Current	100A/96A(DE)

AC Output Data (On-grid)

Max. Continuous Output Power	*5000VA/4600VA(DE)
Max. Continuous Output Current	21.7A/20.0A(DE)
Max. Continuous Current From Utility Grid	43.4A/40.0A(DE)
Nominal Output Voltage	230V(±2%)
Nominal Output Voltage Range	184-253V
Nominal Output Frequency/Range	50Hz/48-51Hz
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@240V	5000VA/4600VA(DE)
Peak Output Apparent Power@240V	7500VA/6900(DE) (10s)
Max. Output Current	21.7A/20.0A(DE)
Nominal Output Voltage	230V(±2%)
Nominal Output Frequency	50Hz

*AS4777.2:4991VA

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