

5-15
kWh

247 SuperCap compact battery datasheet

5,5 – 10 – 15kWh



FEATURES

- GRAPHENE SUPERCAPACITOR CELLS
- SAFEST TECHNOLOGY
- ULTRA LONG CYCLE LIFE
- EXTREME TEMPERATURE
- HIGHEST ENERGY TRANSFER EFFICIENCY
- EASY TO INSTALL
- LOW MAINTENANCE

PERFORMANCE SPECIFICATIONS

Part Number	247 RES 5.5	247 RES 10	247 RES 15
Energy storage	5,59KWh	10,25KWh	15,2KWh
Nominal Voltage	51,8V/DC	51,8V/DC	51,8V/DC
Maximum Charge Voltage	58,8V/DC	58,8V/DC	58,8V/DC
Discharge Cut-off Voltage	39,2V/DC	39,2V/DC	39,2V/DC
Configuration	1456S	14S11P	14S14P
ESR/AC @1KHz 50% SOC	<6mΩ	<6mΩ	<6mΩ
Max. Continuous Charge Current	100A	200A	200A
Max. Continuous Discharge Current	100A	200A	200A
Cooling Method	Natural	Natural	Natural
Cells Self-discharge Rate	2% per month	2% per month	2% per month
Projected Cycle Life (25°C) ¹	20.000 times	20.000 times	20.000 times
Round Trip Efficiency	97,1%	97,1%	98%
Recommended Depth of Discharge	≤90%	≤90%	≤90%
Maximum Depth of Discharge	100%	100%	100%
Shell Material	Metal & ABS plastic	Metal & ABS plastic	Metal & ABS plastic
Monitoring Data	Voltage, current, SOC, state, temperature	Voltage, current, SOC, state, temperature	Voltage, current, SOC, state, temperature
Series Connection	Not allowed	Not allowed	Not allowed
Parallel Connection	Up to 5 sets	Up to 5 sets	Up to 5 sets
Series-Parallel Connection	Not allowed	Not allowed	Not allowed

¹ At room temperature 25°C, charge-discharge at 100A.

247 Energy BV

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247
ENERGY

MECHANICAL SPECIFICATIONS

Part Number	247 RES 5.5	247 RES 10	247 RES 15
Weight	41Kg	68Kg	110Kg
Dimensions (WxDxH)	470x545x194 (mm)	470x792x194(mm)	700x990x194(mm)
Mount Options	Wall or floor mount	Wall or floor mount	Wall or floor mount

Dimensions and weight differ slightly for each batch. Contact 247 Energy for additional information.

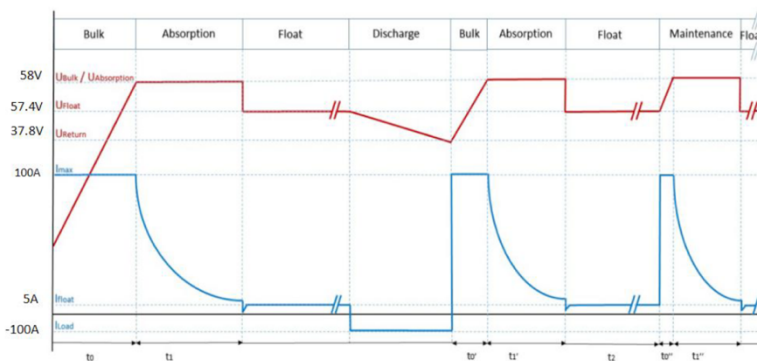
Only combine "units with same capacity/size (5,5+5,5 of 10+10 or 15+15).

COMPLIANCE INFORMATION

ENVIRONMENTAL SPECIFICATIONS

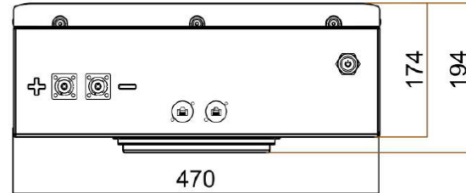
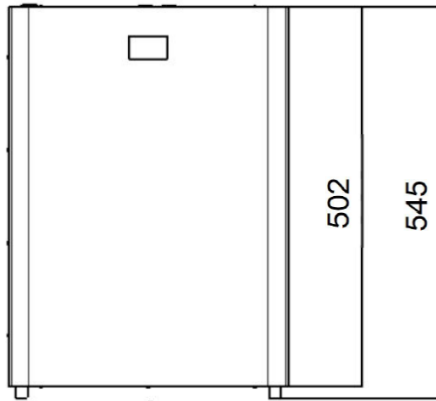
Safety ²	IEC62619, IEC62040	Environmental Protection	Indoor, IP20
		Operating Humidity	0-90% RH Non-condensing
Transport	UN38.3, MSDS	Charge Temperature	0°C~+55°C
		Discharge Temperature	-20°C~+60°C
CE	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013	Storage Conditions	-20°C~+40°C
Environmental	RoHS		25% ~ 95%RH
Inverter	In some packages inverter is included		SOC>30%, one full charge needed per two months

CHARGING/DISCHARGING CURVE

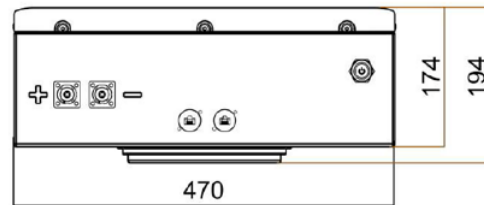
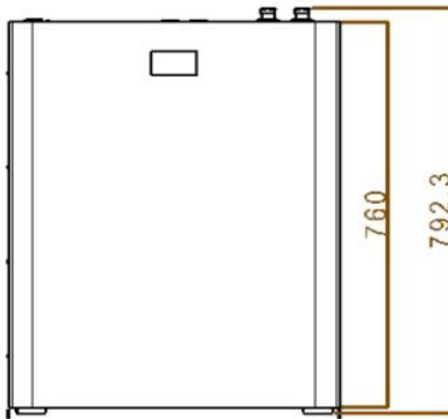


Note: If the charger needs to set the floating charge voltage, it is recommended to set the UFloat value to 57.4V.

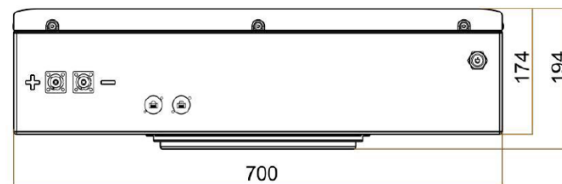
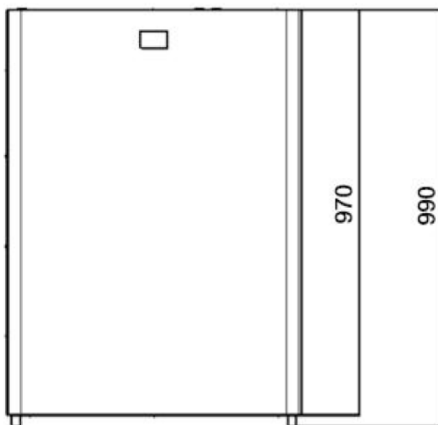
² Limited charge at 100A for residential energy storage



247 RES 5.5 (without inverter)



247 RES 10 (without inverter)



247 RES 15 (without inverter)

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WHY CHOOSE 247 ENERGY STORAGE?



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