

SME & residential storage

Wall-mounted solid-state supercapacitor storage for commercial, light-industrial and residential sites. 5 and 10 kWh, expandable to 160 kWh.

247-RES-48V5K · 48V10K · up to 16 units in parallel, to 160 kWh.

A compact solid-state supercapacitor unit that mounts on the wall and installs in any standard plant, electrical or utility room. Up to sixteen units connect in parallel, scaling a single bank from 5 kWh to 160 kWh. Natural cooling, an IP20 indoor rating, and Bluetooth with CAN and RS485 let it pair with the inverters and energy managers already on site.

Standards: IEC 62619 · CE · RoHS · UN 38.3 · CEI 0-21:2022.

> 15.000 Projected cycle life at 25°C	10.000 Cycle warranty	97.7% Round-trip efficiency (BoL)	16× Units in parallel, to 160 kWh
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FULL SPECIFICATIONS

Part number	RES-48V5K · 48V10K
Energy storage	5 kWh · 10 kWh
Capacity	100 Ah · 200 Ah
Cell technology	Solid-state supercapacitor
Nominal voltage	51.2 V DC
Max. charge / cut-off	58.4 V / 43.2 V DC
Max. charge current	80 A · 100 A
Max. discharge current	100 A
Round-trip efficiency	97.7% (BoL, 25°C)
Projected cycle life (25°C)	> 15.000 cycles
Warranty / design life	10.000 cycles · 15 years
Self-discharge rate	2–3% per month
Parallel connection	Up to 16 sets
Communication	Bluetooth, CAN, RS485
Weight	50 kg · 117 kg
Dimensions (W×H×T)	470×570×175 · 640×887×180 mm
Cooling / ingress	Natural · Indoor IP20
Charge / discharge temp.	0~+55°C / -20~+55°C
Max. elevation	3.000 m

KEY ADVANTAGES

- Solid-state supercapacitor cells, no thermal runaway
- Wall mountable with the bracket supplied
- Scales from 5 kWh to 160 kWh in parallel
- Bluetooth plus CAN and RS485
- Works with standard string and hybrid inverters
- 15-year design life, low monthly self-discharge

APPLICATIONS

- Commercial peak shaving and self-consumption
- Cold-store and unheated buildings, to -20°C
- Residential and small-site backup
- Light-industrial demand management