

SuperCAP 48V 4.95kWh Energy Storage System, Modular

ESSMSC484.95

- **Ultra-Fast Charge & Discharge** Provides high-power performance for transient loads and repeated cycling.
- **Negligible Degradation** Practically unlimited cycle life with no chemical ageing.
- **Wide Temperature Range** $-40\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$ Operates reliably without climate-controlled enclosures.
- **High Efficiency** Up to 99% round-trip efficiency for optimised system performance.
- **Advanced Safety Protection** EZ-Power technology manages short-circuit control, current balance and safe power release.
- **Modular & Scalable** Stackable design with IoT monitoring via Wi-Fi/Bluetooth for long-term asset management





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SUPERCAPACITOR SPECIFICATIONS

SuperCAP 48V4.95kWh

Specifications

General Data	Capacity (kWh / Ah)	4.95/100
	Module Weight	97 kg
	Crate Weight	14.2 Kg
	Dimensions (mm) L x W x H	580 x 635 x 245
	Stackable (units)	4 Units
Charge/ Discharge	Rated Charge Voltage (V)	53.6V
	Max. Continuous Charge Voltage	53.6V
	Max. Surge Voltage (V)	54.0V
	Recommended Discharge Voltage (V)	46.0V
	Rated Discharge Voltage (V)	45.5V
	Max. Continuous Current (A)	200A
	Max. Peak Current (A)	250A
	Max. Charge/Discharge Rate (C)	2C
Safety	Current Safety	Electronic SSR and Thermal DC Breaker (Dual Protection)
	Max. Capacitor Voltage	Electronic
	Loose Connection Monitoring	Electronic
	Temperature Monitoring	Electronic
	Cell Temperature Monitoring	Electronic
	Safe Activation Parameters	EZPower® limited energy release
	Certification	UL810 & IEC62619

Stackable(Units)



Dimensions



Specifications subject to change without notice.