

AMPERAGE DC | Datasheet

Energy Storage System	Type of energy storage	flywheel; ring-type / hollow cylinder flywheel
	Flywheel rotor material	carbon fiber
	Flywheel bearing system	contact free magnetic bearings
	Flywheel operating atmosphere	high vacuum
Typical applications		grid scale energy storage systems
		DC Rail systems
		local DC grids
Technical properties	Rated power	200 kW
	Peak-power	350 kW
	Usable energy capacity	20 kWh
	Efficiency	>92% (DC roundtrip)
Lifetime	Cycle life	> 1,000,000 cycles
	Calendrical life	25 years
Electronics	Power interface	750 V DC, 500 A
	Auxillary power	400 V AC, 50 Hz, 16 A
Communication and energy management	Interface protocol (to external energy management / SCADA)	Modbus TCP, EtherCAT or customer specific
	Energy management (EMS)	optional internal energy management
	Data connection for remote maintenance	4G, 5G & LAN
Standards & Safety	Conformity	CE
	Protection class of enclosure	IP 55, IK 10
	Operating noise level	< 65 dBA
	Sustainability	no battery chemicals, recyclable at end of lifetime
	Place of manufacture	Germany
Maintenance	On site maintenance of periphery	by trained personnel
	Maintenance interval	yearly
	Monitoring	continuous
Size & Weight	Dimensions (W x L x H)	1.2 m x 1.8 m x 2.9 m
	Weight	4.8 t
Sourrounding conditions	Operating temperature	-20° C to 40 °C
	Humidity (non condensing)	< 85%
	Storage temperature	-10 °C to + 70 °C
Installation	Transport	fully assembled energy storage system
	On-site foundation	concrete foundation, also as a prefabricated foundation