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Nickel-Cadmium (Ni-Cd) - STM - High energy module for traction

Rechargeable battery

[Technical characteristics](#)

Saft STM Ni-Cd battery modules are designed to meet the high energy needs of electric vehicles.

Main applications

trucks
boats
AGVs (Automated Guided Vehicles)
buses
other hybrid vehicles

Benefits

high energy density for long range
high energy density for long range
high power for acceleration
low maintenance
adapted to extreme temperatures -20°C to +50°C
rapid recharge

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Plate technology

Sintered / PBE: well-proven sintered positive electrode, a compact plastic bonded negative electrode (PBE).

Range

STM 5-100 MR air-cooled 6 V, 100 Ah
STM 5-100 MRE integrated liquid cooling 6 V, 200 Ah
STM 5-140 MR air-cooled 6 V, 136 Ah

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Technical characteristics

ELECTRICAL CHARACTERISTICS	STM 5-100 MR*	STM 5-100 MRE**	STM 5-140 MR*	
Nominal voltage (V)	6	6	6	
Rated capacity at C/3 rate (Ah)	100	100	136	
Typical specific energy at C/3 (Wh/kg)	55	54	54	
Typical energy density at C/3 (Wh/dm ³)	88	87	95	
Typical specific power at 3/4 U _o at 80% DOD (W/kg)	122	120	108	
Typical power density (W/l)	203	200	190	

MECHANICAL CHARACTERISTICS	STM 5-100 MR*	STM 5-100 MRE**	STM 5-140 MR*	
Typical weight (kg)	12.9	13.2	17.0	
Dimensions (mm)	248x120x260	246x123x260	244x153x260	
Volume (dm ³)	7.74	7.87	9.7	

* MR : Air cooled

** MRE : integrated liquid cooling

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