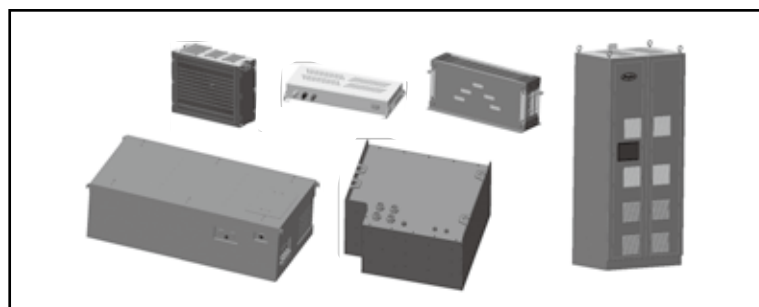


Features

- Higher energy density
- RoHS compliant
- For application in AGV, power grid, EV, train, elevator, Forklift truck power, Port mechanical energy recovery or other Energy storage solutions



Items	Characteristics		
Rated Voltage	12V~640V		
Operating Temperature Range	-25~+55°C		
Capacitance Range	277F~14000F		
Capacitance Tolerance (25°C)	-20~+20%		
Temperature Characteristics	The specifications shall be met at category temperature range from -20°C to 55°C	Capacitance Change	Within 30% of the value at 25°C
		ESR	Less than 2 times of the initial specified value
High Temperature Loaded	The specifications shall be met after rated voltage applied at 55°C for 1000 hours	Capacitance Change	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value
High Temperature Storage	The specifications shall be met after storage at 55°C for 1000 hours	Capacitance Change	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value
Cycle Life	The specifications shall be met after 50,000 cycles at 25°C	Capacitance Change	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value

HMAA Modules

U_R	U_{min}	Rated Cap. 25°C	ESR _{dc}	Rated Current	Size $\Phi L \times W \times H$	Weight	P/N
(V)	(V)	(F)	(m Ω)	(A)	(mm)	(kg)	-
12	7.5	10600	4	100	320 × 140 × 105	5	SCMHAA012109MA
64	43	400	80	32	458 × 228 × 75	6.4	SCMHAA064407MA
136	90	277	100	50	305 × 138 × 415	17.5	SCMHAA136277MA

HMAA System

U_R	U_{min}	Rated Cap. 25°C	ESR _{dc}	Rated Current	Size $\Phi L \times W \times H$	Weight	P/N
(V)	(V)	(F)	(m Ω)	(A)	(mm)	(kg)	-
56	35	14000	5	1000	802 × 725 × 471	665	SCMHAA056149MA
600	375	400	100	300	950 × 600 × 2350	980	SCMHAA600407MA
640	400	1250	30	1000	2872 × 1450 × 865	2500	SCMHAA640128MA

*Customer products are available on request.