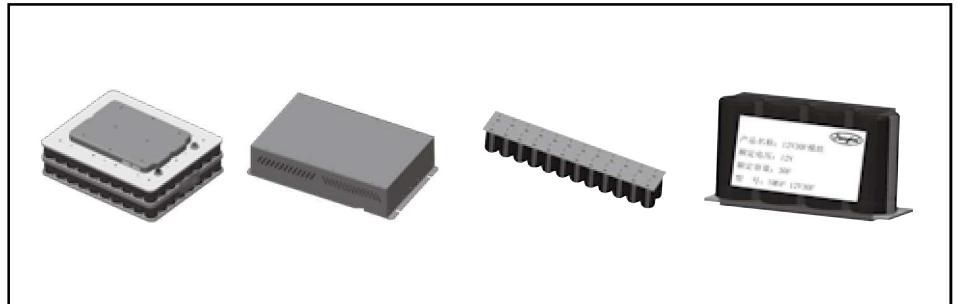


Features

- Standard EDLC modules
- Energy storage solution
- DTU, FTU
- Power grid backup supply
- Automotive electronics



Items	Characteristics		
Rated Voltage	12-800V		
Operating Temperature Range	-40~+65°C		
Capacitance Range	7.5F~180F		
Capacitance Tolerance (25°C)	-10~+30%		
Temperature Characteristics	The specifications shall be met at category temperature range from -40°C to 65°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 65°C for 1500 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 65°C for 1500 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 500,000 cycles at 25°C, cycle of charge/discharge from V_R to $1/2V_R$	Capacitance Change	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value

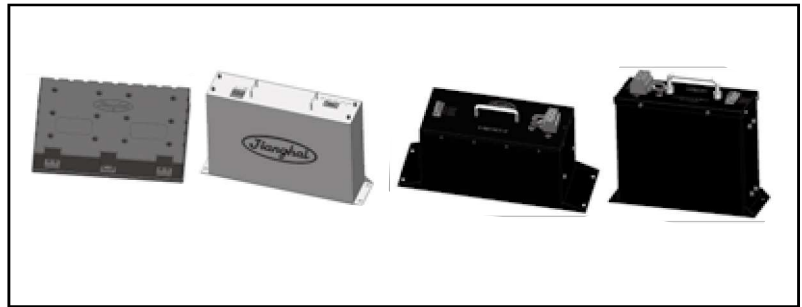
Standard Ratings for SMSP Series

U_R (Surge Voltage) Code	Rated Cap. 25°C	ESR _{bc}	Leakage Current (72hrs)	Max. Peak Current (1s)	Size $\Phi L \times W \times H$	Weight	P/N
(V)	(F)	(mΩ)	(mA)	(A)	(mm)	(kg)	-
12	30	70	0.3	58	93 × 29 × 50	0.13	SCMDPS012306QA
	40	55	0.5	75	103 × 31 × 52	0.15	SCMDPS012406QA
27	180	30	1.8	380	400 × 140 × 92	6.5	SCMDPS027187QA
64	19.5	100	1.0	220	435 × 72 × 68	2.5	SCMDPS064196QA
432	7.5	105	2.7	930	650 × 520 × 205	56	SCMDPS432755QA
800	9.3	120	6	1900	600 × 700 × 1800	250	SCMDPS800935QA

*Customer products are available on request.

Features

- Standard EDLC modules
- Energy storage solution
- Application for back-up of wind pitch system
- Higher energy density
- RoHS compliant



Items	Characteristics		
Rated Voltage	80 - 160V		
Operating Temperature Range	-40 ~ +65°C		
Capacitance Range	6F~21.7F		
Capacitance Tolerance (25°C)	0~+20%		
Temperature Characteristics	The specifications shall be met at category temperature range form -40°C to 65°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 65°C for 1500 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 65°C for 1500 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 500,000 cycles at 25°C, cycle of charge/discharge from V_R to $1/2V_R$	Capacitance Change	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value

Standard Ratings for SSM Series

U_R (Surge Voltage) Code	Rated Cap. 25°C	ESR _{DC}	Leakage Current (72hrs)	Max. Peak Current (1s)	Size ΦL×W×H	Weight	P/N
(V)	(F)	(mΩ)	(mA)	(A)	(mm)	(kg)	-
80	21.7	70	60	440	465 x 150 x207	9.5	SCMDPS080216RA
90	9.6	130	30	220	305 x 112 x270	7.5	SCMDPS090965RA
	11.1	130	30	220	305 x 112 x270	7.5	SCMDPS090116RA
	13	130	30	220	305 x 112 x270	7.5	SCMDPS090136RA
	19.4	75	60	440	410 x 150 x211	11	SCMDPS090196RA
160	6	240	30	220	379 x 251 x83	6.5	SCMDPS160605RA
	10	240	30	220	420 x 90 x300	9	SCMDPS160106RA

* Customer products are available on request.

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 form -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.