





AUTO

Start-Stop System
Short-term Backup Power
Peak Power Assist For High Power Functions
Regenerative Energy Recovery & Power Assist

AUTO MODULE

Series	16V 58F	16V 500F
Pictures		
Connections	Terminal	Screw Hole
Features	<ul style="list-style-type: none"> 1. Compact, fully enclosed splash proof design 2. Over 1,000,000 duty cycles 3. High power density 4. Passive balance 	<ul style="list-style-type: none"> 1. Compact, rugged, fully enclosed splash proof design 2. Over 1,000,000 duty cycles 3. High power density 4. Two balance (equalization circuit or passive) available

SPECIFICATIONS



No.	Models	DC ESR (mΩ)	CAP (F)	LC (mA)	P _{max} (W/kg)	Stored Energy (Wh)	Max. Continuous Current (A)	Dimensions (mm)	Weight (kg)
1	16V 58F	22	58	25	1994	2.1	20	226.5*49.5*76	0.7
2	16V 200F	4	200	2.5	3200	7.1	80	197.5*136*134	5
3	16V 500F	1.8	500	5.2	6237	17.8	160	417*67*179	5.7

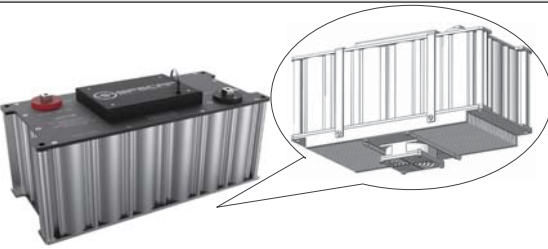



NEW ENERGY BUS

Regenerative Energy Recovery
Auxiliary Power for Start-Stop
Traction Power Supply

NEW ENERGY BUS TYPICAL PRODUCT

Series	16V 500F	48V 165F
Pictures		
Connections	Screw Hole	Screw Hole
Features	1.Compact, rugged, fully enclosed splash proof design 2.Over 1,000,000 duty cycles 3.High power density	1. Advanced Shock & Vibration design including “L” terminal and enhanced internal fixed block. 2. Secondary equalizing circuit reduces false alarms

Series	Enhanced 48V with new structure	144V 55F
Pictures		
Connections	Screw Hole	Screw Hole
Features	1.Self heat emission structure 2.Environmental air cooling can meet operational needs 3.Further reduce energy consumption of automotive	1. Integrate 3 modules of 48V/165F 2.Improve heat dissipation capability by increasing heat dissipation fins. 3.Reduce installation positions 4.Improve safety performance 5.Improve integration convenience

SPECIFICATIONS

No.	Models	DC ESR (mΩ)	CAP (F)	LC (mA)	P _{max} (W/kg)	Stored Energy (Wh)	Max. Continuous Current (A)	Dimensions (mm)	Weight (kg)
1	16V 500F	1.8	500	5.2	6237	17.8	160	417*67*179	5.7
2	48V 165F	5	165	5.2	7783	52.8	150	417*190*179 417*193*179	14.8
3	Enhanced 48V Module with new structure	5	165	5.2	6620	52.8	100	417*207*240	18
4	144V 55F	17	55	5.2	3587	158.4	200	705*540*300	85





TRUCK]

Engine Start

TRUCK TYPICAL PRODUCT

Series	27.5V 109F	30V 250F (Portable)
Pictures		
Connections	Diameter Hole	Battery Clamp
Features	<ol style="list-style-type: none"> 1. Compact and rugged 2. High power density 3. Low ESR 4. Over 1,000,000 duty cycles 	<ol style="list-style-type: none"> 1. Compact, portable 2. With DC/DC boost converter 3. Over 1,000,000 duty cycles

Series	30V 250F (Fixed)	28.5V 300F
Pictures		
Connections	Terminal	Battery Pole
Features	<ol style="list-style-type: none"> 1. Fixed and rugged 2. With DC/DC boost converter 3. Over 1,000,000 duty cycles 	<ol style="list-style-type: none"> 1. Over 1,000,000 duty cycles 2. High power density 3. Low ESR

SPECIFICATIONS

No.	Model	DC ESR (mΩ)	CAP (F)	P _{max} (W/kg)	Stored Energy (Wh)	Max.Continuous Current(A)	Dimensions (mm)	Weight(kg)
1	27.5V109F	7.0	109	3177	11.4	110	384*146*146	8.5
2	28.5V300F	--	300	--	--	25	324*163*257	13.3
3	30V250F(Portable)	3.5	250	2795	31.2	150	565*303*219.5	23
4	30V250F(Fixed)	3.5	250	3781	31.2	150	450*263*251.5	17



MASS TRANSPORTATION

Power Supply Systems for Energy Storage Type Tram
Braking Energy Recovery System for Metro and Light Rail
Starting Power Supply for Locomotive

MASS TRANSPORTATION TYPICAL PRODUCT

Series	7500F	9500F	12000F
Pictures			
Connections	Screw Hole	Screw Hole	Screw Hole
Features	1.Stable & Reliable 2.Ultra-high power density 3.More than one million cycle times 4.Green and environmental friendly 5.Maintenance-free	1.Ultra-low ESR, ESR(DC)≤0.200mΩ 2.Ultra-high power density 3.Up to 1,000,000 duty cycles life 4.Green and environmental friendly 5.Maintenance-free	1. Up to 3V voltage 2. Ultra-high Capacitance 3. 1,000,000 duty cycles life 4.Green and environmental friendly 5.Maintenance-free

SPECIFICATIONS

Items		Rated Working Voltage (V)	Rated Working Voltage Range (V)	Total Capacitance (F)	Total Stored Energy (kWh)	Working Energy (kWh)	Fast Charge Current (A) (Peak)	Braking Energy Recovery (%)	Charging Time (S)
System for Energy Storage Type Tram	900V 130F	DC 900	DC 500~900	130	16	12.8	1800	85	≤30
	900V 165F	DC 900	DC 500~900	165	20	16	1200	85	≤30
	850V 225F	DC 850	DC 500~850	225	27	23	1200	85	≤30
	900V 392F	DC 900	DC 500~900	392	54	43	1200	85	≤30

Items		Rated Voltage (V)	Rated Voltage Range(V)	Maximum Working Voltage(V)	Capacitance (F)	Rated Working Current(A)	Maximum Working Current(A)	Energy Recovery of Single cycle(KWh)	Service Life (year)
System for Metro	750V 125F	750	500-900	1000	125	1600	4400(10S)	8.2	10
	1500V 74F	1500	100-1800	2000	74.7	1600	2250(10S)	7.7	10
Module for Locomotive	60V 125F	60	60-80	68	125	--	--	--	10