



STF

SIRI
TECHNO
FABS

www.siritech.net

LTO Battery

Smart Energy Storage



STF
SIRI
TECHNO
FABS
www.siritech.net

LTO BATTERY



PRODUCT DETAILS

Based on the LTO material technology and high energy density cell technology with independent intellectual property rights, We took the lead in solving the industry problem of gas generation at high-temperature of LTO battery, and has developed products with excellent performance and cost effectiveness. Advanced technology, simple process and low cost.



High safety

No dendrite, good thermal stability, intrinsic safety;



High rate

Fully charged in 6 min, completely discharged in 6 min;



Recycle

Recycling rate of the cell > 97%.



Long cycle life

More than 20 years;



Wide Working temperature

Can be charged and discharged repeatedly at -50~65 °C;

C SERIES

SPECIFICATIONS

PRODUCT MODEL		STF18650CA-1500mAh-2.4V	STF18650CB-1500mAh-2.4V
Nominal capacity (Ah)		1.5	1.5
Nominal voltage (V)		2.4	2.4
Charging and discharging voltage range (V)		1.5~2.7	1.5~2.7
Size (mm)	Diameter	18.5±0.2	18.5±0.2
	Height	65.5±0.5	65.5±0.5
ESR @ 1kHz (mΩ)		≤25	≤15
Nominal Energy (Wh)		3.6	3.6
Energy Density (Wh/kg)		85.7	85.7
Max. Constant Discharging Current (A) (≥95%)		6	7.5
Max. Charging Current (A)		6	7.5
Max. Discharging Current (A)		12	12
Low temperature discharge efficiency (1C)	-40°C	≥70%	≥70%
	-20°C	≥80%	≥80%
Normal temperature cycle life@80%		≥8000	≥12000
Operating Temperature (°C)	Charge	-50 ~ +65	-50 ~ +65
	Discharge	-50 ~ +65	-50 ~ +65
Weight (g)		42±2	42±2

C SERIES

SPECIFICATIONS

PRODUCT MODEL		STF60100CWLA-20Ah-2.4V	STF60138CSTA-30Ah-2.4V
Nominal capacity (Ah)		20	30
Nominal voltage (V)		2.4	2.4
Charging and discharging voltage range (V)		1.5~2.8	1.5~2.8
Size (mm)	Diameter	60.5±0.3	60.5±0.3
	Height	110.5±0.5	146.5±0.3
ESR @ 1kHz (mΩ)		≤0.5	≤0.35
Nominal Energy (Wh)		48	72
Energy Density (Wh/kg)		73.8	85.7
Max. Constant Discharging Current (A) (≥95%)		160	240
Max. Charging Current (A)		240	360
Max. Discharging Current (A)		400	600
Low temperature discharge efficiency (1C)	-40°C	≥80%	≥80%
	-20°C	≥85%	≥85%
Normal temperature cycle life@80%		≥15000	≥15000
Operating Temperature (°C)	Charge	-50 ~ +65	-50 ~ +65
	Discharge	-50 ~ +65	-50 ~ +65
Weight (g)		650±10	840±10

M SERIES

SPECIFICATIONS

PRODUCT MODEL		STF60138MSTA-24Ah-2.4V
Nominal capacity (Ah)		24
Nominal voltage (V)		2.4
Charging and discharging voltage range (V)		1.5~2.8
Size (mm)	Diameter	60.5±0.3
	Height	146.5±0.3
ESR @ 1kHz (mΩ)		≤0.45
Nominal Energy (Wh)		57.6
Energy Density (Wh/kg)		72
Max. Constant Discharging Current (A) (≥95%)		120
Max. Charging Current (A)		144
Max. Discharging Current (A)		240
Low temperature discharge efficiency (1C)	-40°C	≥50%
	-20°C	≥70%
Normal temperature cycle life@80%		≥20000
Operating Temperature (°C)	Charge	-50 ~ +65
	Discharge	-50 ~ +65
Weight (g)		805±10

X SERIES

SPECIFICATIONS

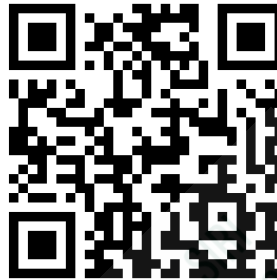
PRODUCT MODEL		STF60138XWLB-24Ah-2.3V
Nominal capacity (Ah)		24
Nominal voltage (V)		2.3
Charging and discharging voltage range (V)		1.5~2.7
Size (mm)	Diameter	60.5±0.3
	Height	146.5±0.3
ESR @ 1kHz (mΩ)		≤0.3
Nominal Energy (Wh)		55.2
Energy Density (Wh/kg)		65
Max. Constant Discharging Current (A) (≥95%)		192
Max. Charging Current (A)		480
Max. Discharging Current (A)		720
Low temperature discharge efficiency (1C)	-40°C	≥45%
	-20°C	≥60%
Normal temperature cycle life@80%		≥30000
Operating Temperature (°C)	Charge	-50 ~ +65
	Discharge	-50 ~ +65
Weight (g)		830±10

C SERIES

SPECIFICATIONS

PRODUCT MODEL		STF60165CSTB-40Ah-2.4V	STF66160CSTE-45Ah-2.4V
Nominal capacity (Ah)		40	45
Nominal voltage (V)		2.4	2.4
Charging and discharging voltage range (V)		1.5~2.9	1.5~2.9
Size (mm)	Diameter	60.5±0.3	66.0±1.0
	Height	193.6±0.3	209.5±1.0
ESR @ 1kHz (mΩ)		≤0.3	≤0.3
Nominal Energy (Wh)		96	108
Energy Density (Wh/kg)		91.4	86.4
Max. Constant Discharging Current (A) (≥95%)		320	360
Max. Charging Current (A)		480	900
Max. Discharging Current (A)		800	1350
Low temperature discharge efficiency (1C)	-40°C	≥80%	≥80%
	-20°C	≥85%	≥85%
Normal temperature cycle life@80%		≥25000	≥30000
Operating Temperature (°C)	Charge	-50 ~ +65	-40 ~ +60
	Discharge	-50 ~ +65	-40 ~ +60
Weight (g)		1050±12	1250±12

Contact Information



Address: 643, 68th Cross Rd, Kumaraswamy Layout II Stage,

1st Stage, Kumaraswamy Layout, Bengaluru, Karnataka 560078

 **Email:** solar@siritech.net

 **Website:** www.siritech.net