KAIGAI CORPORATION

TENERGY®

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Tenergy Drone Battery Pack







Product Catalog & Technical Datasheets

TENERGY®

Made In USA
Custom Battery Solution

Tenergy Corporation: Your Custom Battery Pack Experts

At Tenergy Corporation, we specialize in designing and manufacturing custom battery packs. Our extensive engineering capabilities and state-of-the-art manufacturing technology allows us to work with a variety of battery chemistries, including Lithium-ion, Lithium polymer, Alkaline, NiMH, Nickel Cadmium, and SLA.

We provide tailored battery solutions that cater to a diverse range of needs. Our expertise covers a wide array of applications such as Industrial OEMs, Medical Instrumentation, Seismic Instrumentation, Military Applications, and Portable Electrical and Electronic Product Design. We are dedicated to delivering smart, customized power solutions for all industrial products requiring engineered battery systems.

Partner with Tenergy for all your custom battery needs.



KAIGAI CORPORATION

TENERGY®

- Highest Energy Density in the world
- High Discharge Rate Capabilities
- **Made in USA**

Tenergy 14.4V 4Ah 4S1P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34583-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	14.4V
Weight	206g
Dimension	38*38*72mm
Rated capacity	4Ah
Max. charging current	4A
Max. continuous discharge current	16A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-5

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Tenergy 14.4V 8Ah 4S2P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34584-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	14.4V
Weight	409.5g
Dimension	38*38*135mm
Rated capacity	8Ah
Max. charging current	8A
Max. continuous discharge current	22A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-5

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- Work with 3DR Drone
- Made in USA

Tenergy 18V 8Ah 5S2P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34585-0



- Wok with 3DR Drone

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	18V
Weight	548.5g
Dimension	96.2*39*70mm
Rated capacity	8Ah
Max. charging current	8A
Max. continuous discharge current	30A for Drone
Connector	Discharge: XT60 Balance Charge: JST XHP-6

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Tenergy 21.6V 4Ah 6S1P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34586-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	21.6V
Weight	305.1g
Dimension	38*57*70mm
Rated capacity	4Ah
Max. charging current	4A
Max. continuous discharge current	15A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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Tenergy 21.6V 8Ah 6S2P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34587-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	21.6V
Weight	460g
Dimension	15*49*52mm
Rated capacity	8Ah
Max. charging current	8A
Max. continuous discharge current	20A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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TENERGY®

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- Made by 18650 size 4Ah battery cells
- Made in USA

Tenergy 21.6V 12Ah 6S3P Li-Ion Batteries



Made by 18650 size 4Ah battery cells

P/N 34588-0

Working Temperature	charging: 0~45℃， discharge:-20~55℃
Nominal Voltage	21.6V
Weight	920g
Dimension	145*57*56mm
Rated capacity	12Ah
Max. charging current	12A
Max. continuous discharge current	24A
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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- **Made in USA**

Tenergy 21.6V 16Ah 6S4P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34589-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	21.6V
Weight	1212.6g
Dimension	56*74.5**145mm
Rated capacity	16Ah
Max. charging current	16A
Max. continuous discharge current	35A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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- Made in USA

Tenergy 21.6V 20Ah 6S5P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34590-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	21.6V
Weight	1513.6g
Dimension	56*94*145mm
Rated capacity	20Ah
Max. charging current	20A
Max. continuous discharge current	50A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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- Work with UAV
- Made in USA

Tenergy 21.6V 24Ah 6S6P 518.4Wh 50A Discharge Li-Ion Battery Pack



Made by 18650 size 4Ah battery cells

P/N 34591-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	21.6V
Weight	1886g
Dimension	20.1cm x7.6cm x6.1cm
Rated capacity	24Ah
Max. charging current	24A
Max. continuous discharge current	72A
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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- Work with 3DR Drone
- Made in USA

Tenergy 43.2V 8Ah 12S2P Li-Ion Batteries

Made by 18650 size 4Ah battery cells



P/N 34592-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	43.2V
Weight	1213.6g
Dimension	56*75*145mm
Rated capacity	8Ah
Max. charging current	8A
Max. continuous discharge current	22A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-13

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Tenergy 13.6V 10.8Ah 4S1P Li-Ion Polymer Batteries



P/N 34527-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	13.6V
Weight	460g
Dimension	52*49*150mm
Rated capacity	10.8Ah
Charging current	16A Airflow Determined
Max. continuous discharge current	32A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-5

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Tenergy 20.4V 10.8Ah 6S1P Li-Ion Polymer Batteries



P/N 34526-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	20.4V
Weight	675g
Dimension	50*49*140mm
Rated capacity	10.8Ah
Charging current	20A Airflow Determined
Max. continuous discharge current	30A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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Tenergy 20.4V 21.6Ah
6S2P Li-Ion Polymer Batteries



P/N 34521-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	20.4V
Weight	1335g
Dimension	53*82*153mm
Rated capacity	21.6Ah
Charging current	36A Airflow Determined
Max. continuous discharge current	60A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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Tenergy 20.4V 23.7Ah 6S2P Li-Ion Polymer Batteries



P/N 34593-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	20.4V
Weight	1278g
Dimension	55*84*147mm
Rated capacity	23.7Ah
Charging current	8A Nominal
Max. continuous discharge current	24A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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Tenergy 20.4V 32.4Ah 6S3P Li-Ion Polymer Batteries



P/N 34525-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	20.4V
Weight	1972g
Dimension	52*154*156mm
Rated capacity	32.4Ah
Charging current	50A Airflow Determined
Max. continuous discharge current	90A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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Tenergy 20.4V 43.2Ah 6S4P Li-Ion Polymer Batteries



P/N 34529-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	20.4V
Weight	2700g
Dimension	86*106*154mm
Rated capacity	43.2Ah
Charging current	35A Nominal
Max. continuous discharge current	90A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-7

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Tenergy 27.2V 21.6Ah 8S2P Li-Ion Polymer Batteries



P/N 34580-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	27.2V
Weight	1800g
Dimension	58*106*154mm
Rated capacity	21.6Ah
Charging current	15A Nominal
Max. continuous discharge current	45A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-9

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Tenergy 40.8V 10.8Ah 12S1P Li-Ion Polymer Batteries



P/N 34581-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	40.8V
Weight	1335g
Dimension	53*153*82mm
Rated capacity	10.8Ah
Max. charging current	20A
Max. continuous discharge current	32A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-13

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Tenergy 40.8V 21.6Ah 12S2P Li-Ion Polymer Batteries



Optional add-on features

- PCM
- Auto heating
- CANBus Communiation

P/N 34609-0

Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	40.8V
Weight	2700g
Dimension	86*106*154mm
Rated capacity	21.6Ah
Max. charging current	40A
Max. continuous discharge current	60A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-13

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Tenergy 40.8V 32.4Ah 12S3P Li-Ion Polymer Batteries



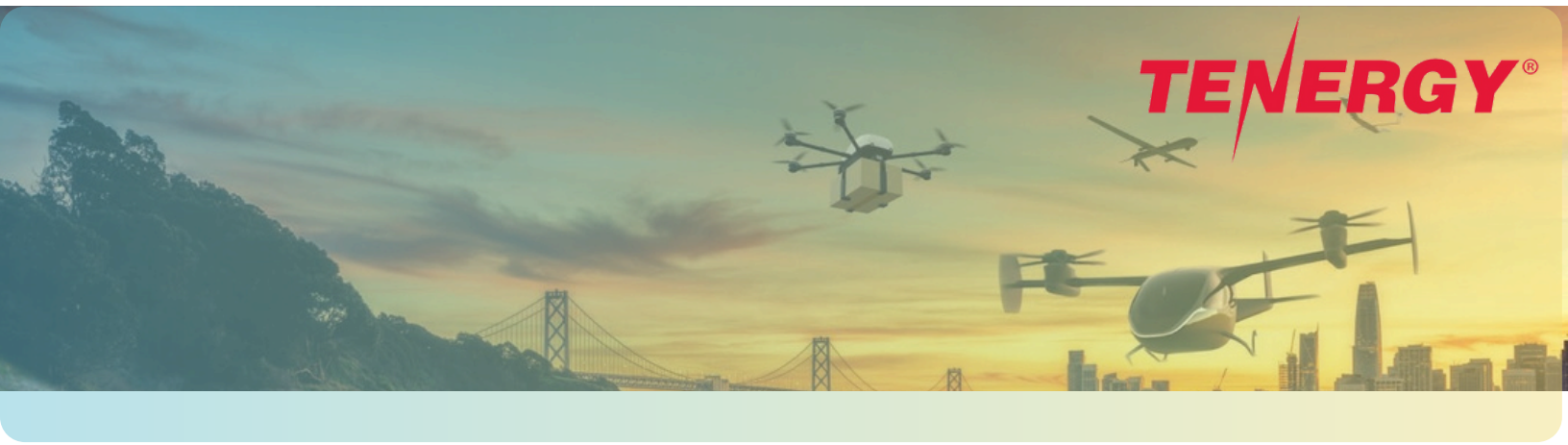
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Working Temperature	charging: 0~45℃， discharge:-20~60℃
Nominal Voltage	40.8V
Weight	3900g
Dimension	60*100*305mm
Rated capacity	32.4Ah
Max. charging current	50A
Max. continuous discharge current	90A for Drone
Connector	Discharge: XT90 Balance Charge: JST XHP-13

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Tenergy Drone Battery Cell









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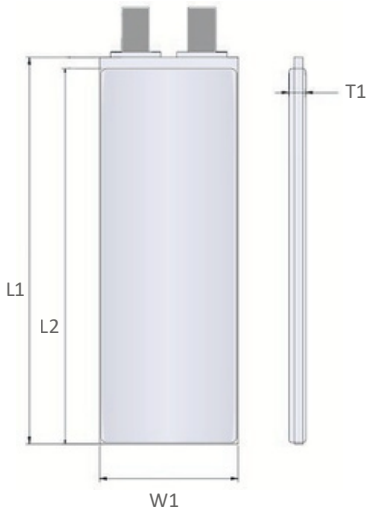
TENERGY®

SA03

SiCore™ | Rechargeable Lithium-Ion Cell

11.84 Ah Energy Cell





Specifications

Capacity	Typical @ C/5	11840 mAh
		40.26 Wh
	Minimum	11600 mAh
		39.44 Wh
Cell Voltage	Nominal	3.40 V 4.20
	Charge	V
	Discharge	2.50 V
Discharge Current	Max Continuous	11.6 A (1C)
	Max Pulse (≤ 30 seconds)	34.8 A (3C)
Charge Current	Typical	2.36 A (C/5)
	Maximum (0% to 100% SOC)	3.93 A (C/3)
Temperature Range Ambient	Discharge	-20 to 55°C
	Charge	10 to 55°C
	Storage	-20 to 45°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 20 mΩ
Cycle Life	+0.3C/-1C, 100% DOD to 80% SOH	300 cycles
	+0.3C/-1C, 70% DOD to 90% SOH	700 cycles
Weight		102.0 ± 2g
Packaging		Pouch
Cathode		NMC
Energy Density Includingpackaging	Gravimetric	400 Wh/kg
	Volumetric (@ 30% SOC)	875 Wh/L
Special Note	External clamping of 15 PSI is recommended	
Certifications	UN 38.3	

Dimensions

Size	L1 L2 W1 T1 (@	139.0 ±0.6mm
	30% SOC)	134.3 ±0.8mm
		52.5 ±1.5mm
		6.32 ±0.25mm

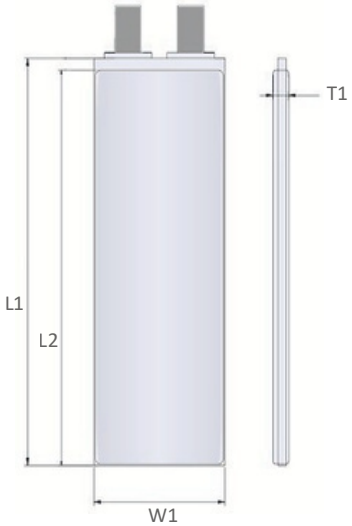
KAIGAI CORPORATION

SA08

SiCore™ | Rechargeable Lithium-Ion Cell

11.05 Ah Power Cell





Specifications

Capacity	Typical @ C/5	11050 mAh
		37.57 Wh
	Minimum	10800 mAh
		36.72 Wh
Cell Voltage	Nominal	3.40 V
	Charge	4.20 V
	Discharge	2.50 V
Discharge Current	Max Continuous	54.0 A (5C)
	Max Pulse (≤ 30 seconds)	86.4 A (8C)
Charge Current	Typical	2.16 A (C/5)
	Maximum (0% to 100% SOC)	32.4 A (3C)
Temperature Range Ambient	Discharge	-20 to 60°C
	Charge	0 to 60°C
	Storage	-20 to 45°C
Internal Resistance	ACIR (1 kHz @ 30% SOC)	≤ 6 mΩ
Cycle Life	+1C/-3C, 100% DOD to 80% SOH	300 cycles
	+1C/-3C, 70% DOD to 90% SOH	700 cycles
Weight		106.5 ± 2g
Packaging		Pouch
Cathode		NMC
Energy Density Includingpackaging	Gravimetric	345 Wh/kg
	Volumetric (@ 30% SOC)	750 Wh/L
Certifications	UN 38.3, IEC 62133	

Dimensions

Size	L1 L2 W1 T1 (@	144.5 ±1.0mm
	30% SOC)	134.3 ±0.8mm
		52.0 ±1.5mm
		6.25 ±0.25mm

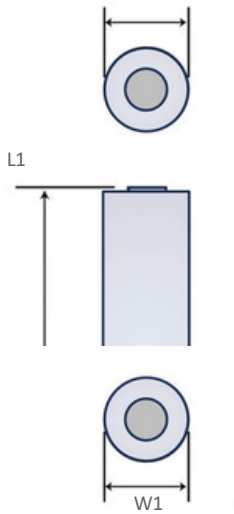
KAIGAI CORPORATION

SA10

SiCore™ | Rechargeable Lithium-Ion Cell

4 Ah Energy + Mid Power 18650 Cell





Specifications

Capacity	Typical	4000 mAh 14.41 Wh 3850 mAh
	Minimum	13.86 Wh 3.60 V
		4.20 V
Cell Voltage	Nominal	2.50 V
	Charge	12 A (3C)
	Discharge	20 A (5C)
Discharge Current	Max Continuous	2 A (C/2)
	Max Pulse (< 30 seconds)	4 A (1C)
Charge Current	Typical	-20 to 60°C
	Maximum (0% to 100% SOC)	0 to 45°C
Temperature Range	Discharge	-20 to 30°C ≤ 25
Ambient	Charge	mΩ
	Storage	600 cycles
Internal Resistance	ACIR (1 kHz @ 30% SOC)	48 ± 2g 18650
Cycle Life	+0.5C/-1C, 4.2 to 2.75V	Cylindrical NMC
Weight		300 Wh/kg
Packaging		830 Wh/L
Cathode		
Energy Density	Gravimetric	
Includingpackaging	Volumetric (@ 30% SOC)	
Certifications	UN38.3 IEC62133, UL1642*, PSE	

Dimensions

Size	L1	65.05 ±0.15mm
	W1	18.35 ±0.15mm

KAIGAI CORPORATION

RS40

| Rechargeable Lithium-Ion Cell

4Ah Ultra-Wide Temperature High Power Cell



Specifications

Capacity	Minimum	4000 mAh
		14.4 Wh
Cell Voltage	Nominal	3.6 V
	Charge	4.2 V
	Discharge	2.5 V
Discharge Current	Max Continuous	70 A (17.5C)
	Max Pulse	280 A (70C)
Charge Current	Maximum continuous charge current	14 A (3.5C)
	Maximum charge current	40 A (10C)
Temperature Range Ambient	Discharge	-40 to 80°C
	Charge	-20 to 60°C
	Storage	-20 to 45°C
Internal Resistance	ACIR (50 Hz @ 30% SOC) +1C/-1C,	≤ 4 mΩ
Cycle Life	80% @25°C, 0.5C charge/1C discharge	1500 cycles
Weight		≤67.0g
Packaging		21700 Cylindrical
Cathode		NMC
Energy Density Includingpackaging	Gravimetric	220 Wh/kg
	Volumetric	580 Wh/L
Certifications	RCM, UL1642, UL/CSA62133, CCC, EU 2023-1542, Canada Hg regulation, ROHS, REACH, SVHC, PSE, CB, UN38.3	



Dimensions

Size	L1	Max	70.3mm
	W1	\Max	21.35mm

KAIGAI CORPORATION

RS50

Rechargeable Lithium-Ion Cell

5Ah Ultra-Wide Temperature High Power Cell





Specifications

Capacity	Minimum	4950 mAh
		17.82 Wh
Cell Voltage	Nominal	3.6 V
	Charge	4.2 V
	Discharge	2.5 V
Discharge Current	Max Continuous	70 A (17.5C)
	Max Pulse	247.5 A (50C)
Charge Current	Maximum continuous charge current	14.85 A (3C)
	Maximum charge current	39.6 A (8C)
Temperature Range Ambient	Discharge	-40 to 80°C
	Charge	-20 to 60°C
	Storage	-20 to 45°C
Internal Resistance	ACIR (50 Hz @ 30% SOC) +1C/-1C,	≤ 4 mΩ
Cycle Life	80% @25°C, 0.4C charge/0.8C discharge	1500 cycles
Weight		≤67.0g
Packaging		21700 Cylindrical
Cathode		NMC
Energy Density Includingpackaging	Gravimetric	270 Wh/kg
	Volumetric	730 Wh/L
Certifications	RCM, UL1642, UL/CSA62133, CCC, EU 2023-1542, Canada Hg regulation, ROHS, REACH, SVHC, PSE, CB, UN38.3	

Dimensions

Size	L1	Max	70.3mm
	W1	Max	21.35mm

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KAIGAI CORPORATION

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KAIGAI CORPORATION