

BE-POWER GmbH

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BE-POWER

Battery and Energy Modules

**Through-Hole-Device
THD-Lithium-Ion Cells**



THD-Lithium-Ion Cell Series



- Small Size – High Rate Series
- High Rate Series
- High Capacity Series
- Iron-Phosphate Series
- Titanate Series



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Battery and Energy Modules

Through-Hole-Device THD-Lithium-Ion Cells



Small Size – High Rate Series

Features:

- Technology: **Lithium-Cobalt; 3.7V**
- Temperature range: discharge: -30°C – 75°C
charge: 0°C – 45°C
- High Rate Discharge: 5C – 15C, depending on cell size
- Miniaturized form factors
- Cycle life: 800 cycles @ 0.5C discharge @ 70% remaining capacity @ 1.0 charge
500 cycles @ 1.0C discharge @ 70% remaining capacity @ 1.0 charge

Product Portfolio:

Model	Capacity (mAh)	Rate	Diameter (mm)	Height (mm)	Weight (g)	IR (mΩ)	Voltage (V)
BE-CC6538	80	15C	6.5 ± 0.15	38 + 0.5/ -0	2.8	100	3.7
BE-CC7230	80	15C	7.2 ± 0.15	30 + 0.5/ -0	2.5	100	3.7
BE-CC7240	110	10C	7.2 ± 0.15	40 + 0.5/ -0	3.5	90	3.7
BE-CC0825	65	10C	8 ± 0.15	25 + 0.5/ -0	2.6	150	3.7
BE-CC0840	170	10C	8 ± 0.15	40 + 0.5/ -0	4.6	80	3.7
BE-CC0845	180	10C	8 ± 0.15	45 + 0.5/ -0	5.2	80	3.7
BE-CC0850	220	5C	8 ± 0.15	50 + 0.5/ -0	5.8	70	3.7
BE-CC0860	270	5C	8 ± 0.15	60 + 0.5/ -0	7.1	60	3.7
BE-CC1015	70	10C	10 ± 0.15	15 + 0.5/ -0	2.5	100	3.7
BE-CC1020	90	15C	10 ± 0.15	20 + 0.5/ -0	3.4	100	3.7
BE-CC1030	150	15C	10 ± 0.15	30 + 0.5/ -0	5.0	50	3.7
BE-CC1040	240	15C	10 ± 0.15	40 + 0.5/ -0	7.2	40	3.7
BE-CC1316	140	15C	13 ± 0.15	16 + 0.5/ -0	4.8	85	3.7
BE-CC1320	180	15C	13 ± 0.15	20 + 0.5/ -0	6.0	60	3.7
BE-CC1325	250	15C	13 ± 0.15	25 + 0.5/ -0	7.8	40	3.7
BE-CC1330	300	15C	13 ± 0.15	30 + 0.5/ -0	9.5	35	3.7

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Battery and Energy Modules

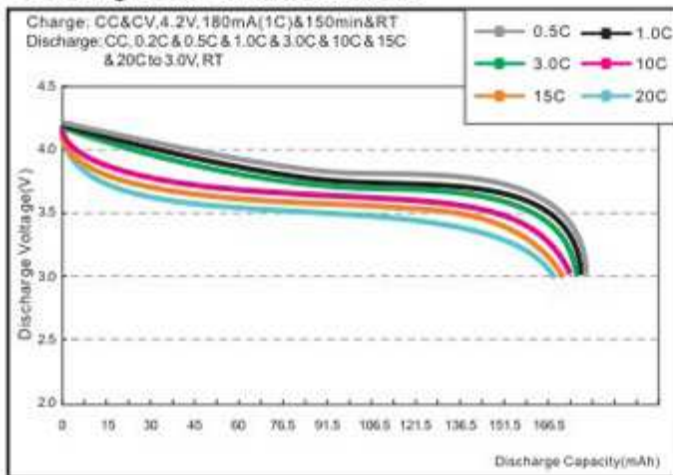
Through-Hole-Device THD-Lithium-Ion Cells



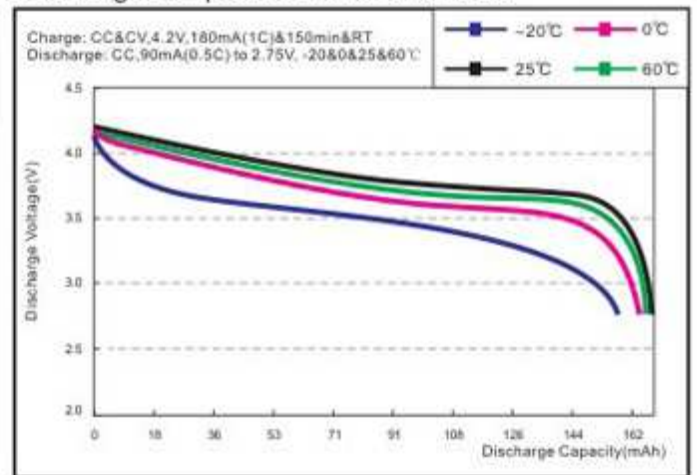
Small Size – High Rate Series

Characteristics:

Discharge rate characteristics



Discharge temperature characteristics



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Battery and Energy Modules

Through-Hole-Device THD-Lithium-Ion Cells



High Rate Series

Features:

- Technology: Lithium-Manganese; **3.7V** (Spinel Type)
- Temperature range: discharge: -30°C – 60°C
charge: 0°C – 45°C
- High Rate Discharge: 10C – 15C, depending on cell size
- Miniaturized form factors
- Flat discharge profile
- Cycle life: 500 cycles @ 0.5C discharge @ 70% remaining capacity @ 1.0 charge
300 cycles @ 1.0C discharge @ 70% remaining capacity @ 1.0 charge

Product Portfolio:

Model	Capacity (mAh)	Rate	Diameter (mm)	Height (mm)	Weight (g)	IR (mΩ)	Voltage (V)
BE-MC1865	1400	15C	18.5 ± 0.15	65 + 0.5/ -0	40.0	20	3.7
BE-MC1665	1100	15C	16 ± 0.15	65 + 0.5/ -0	31.5	25	3.7
BE-MC1650	800	15C	16 ± 0.15	50 + 0.5/ -0	22.5	30	3.7
BE-MC1635	500	15C	16 ± 0.15	35 + 0.5/ -0	17.3	60	3.7
BE-MC1450	700	15C	14 ± 0.15	50 + 0.5/ -0	18.5	35	3.7
BE-MC1345	450	15C	13 ± 0.15	45 + 0.5/ -0	13.8	40	3.7
BE-MC1340	380	15C	13 ± 0.15	40 + 0.5/ -0	11.5	35	3.7
BE-MC1325	200	15C	13 ± 0.15	25 + 0.5/ -0	7.5	45	3.7
BE-MC1020	70	15C	10 ± 0.15	20 + 0.5/ -0	3.4	100	3.7

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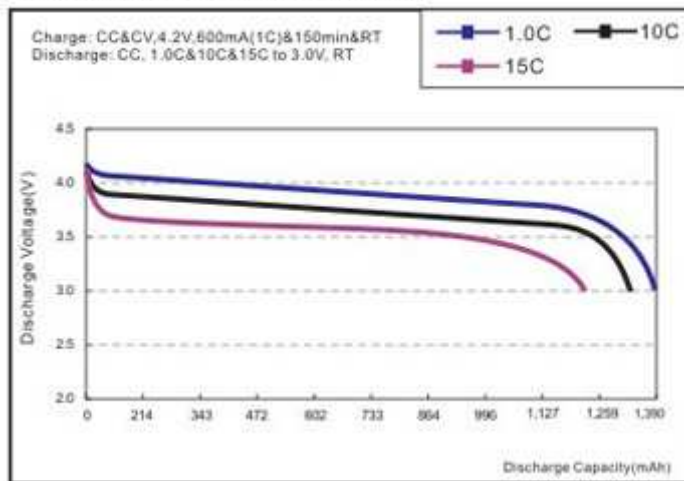
Through-Hole-Device THD-Lithium-Ion Cells



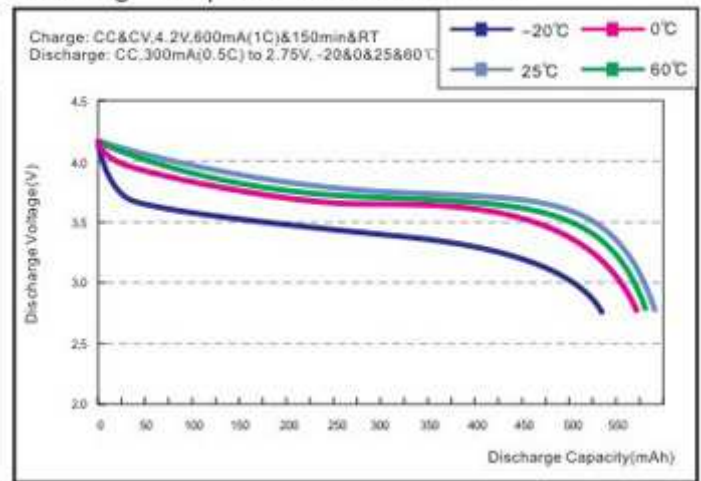
High Rate Series

Characteristics:

Discharge rate characteristics



Discharge temperature characteristics



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Battery and Energy Modules

Through-Hole-Device THD-Lithium-Ion Cells



High Capacity Series

Features:

- Technology: Lithium-Nickel-Manganese-Cobalt; **3.7V**
- Temperature range: discharge: -20°C – 70°C
charge: 0°C – 45°C
- Rate Discharge: 3C – 5C, depending on cell size
- Miniaturized form factors
- Cycle life: 800 cycles @ 0.5C discharge @ 70% remaining capacity @ 1.0 charge
500 cycles @ 1.0C discharge @ 70% remaining capacity @ 1.0 charge

Product Portfolio:

Model	Capacity (mAh)	Rate	Diameter (mm)	Height (mm)	Weight (g)	IR (mΩ)	Voltage (V)
BE-SC1865	2200	3C	18.5 ± 0.15	65 + 0.5/ -0	41.5	25	3.7
BE-SC1865	2000	3C	18.5 ± 0.15	65 + 0.5/ -0	40.5	25	3.7
BE-SC1850	1500	3C	18.5 ± 0.15	50 + 0.5/ -0	29.5	25	3.7
BE-SC1665	1500	3C	16 ± 0.15	65 + 0.5/ -0	31.5	30	3.7
BE-SC1650	1000	3C	16 ± 0.15	50 + 0.5/ -0	23.0	30	3.7
BE-SC1645	800	3C	16 ± 0.15	45 + 0.5/ -0	20.3	30	3.7
BE-SC1635	650	3C	16 ± 0.15	35 + 0.5/ -0	16.0	33	3.7
BE-SC1629	500	3C	16 ± 0.15	29 + 0.5/ -0	15.8	45	3.7
BE-SC1450	700	3C	14 ± 0.15	50 + 0.5/ -0	17.3	30	3.7
BE-SC1443	630	3C	14 ± 0.15	43 + 0.5/ -0	15.0	35	3.7
BE-SC1365	900	3C	13 ± 0.15	65 + 0.5/ -0	18.8	30	3.7
BE-SC1360	840	3C	13 ± 0.15	60 + 0.5/ -0	17.6	30	3.7
BE-SC1355	700	3C	13 ± 0.15	55 + 0.5/ -0	15.9	35	3.7
BE-SC1345	650	3C	13 ± 0.15	45 + 0.5/ -0	13.7	40	3.7
BE-SC1340	450	3C	13 ± 0.15	40 + 0.5/ -0	12.0	45	3.7
BE-SC1050	350	3C	10 ± 0.15	50 + 0.5/ -0	8.6	45	3.7
BE-SC1040	280	3C	10 ± 0.15	40 + 0.5/ -0	6.9	50	3.7
BE-SC1025	150	3C	10 ± 0.15	25 + 0.5/ -0	4.5	120	3.7
BE-SC1015	80	3C	10 ± 0.15	14 + 0.5/ -0	2.6	160	3.7
BE-SC0817	60	3C	8.0 ± 0.15	17 + 0.5/ -0	1.9	180	3.7

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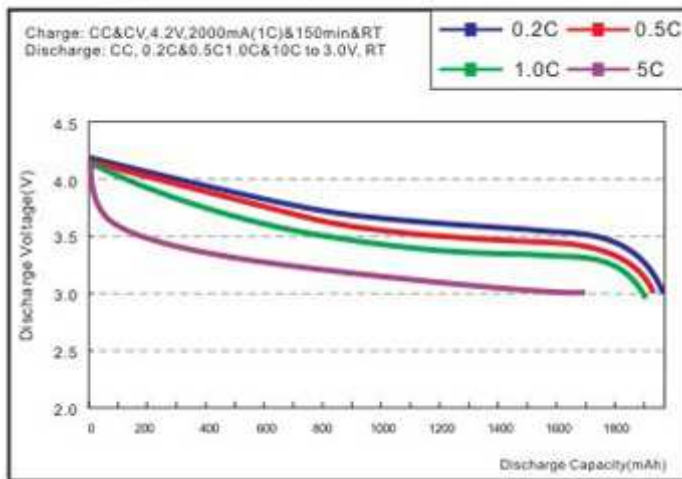
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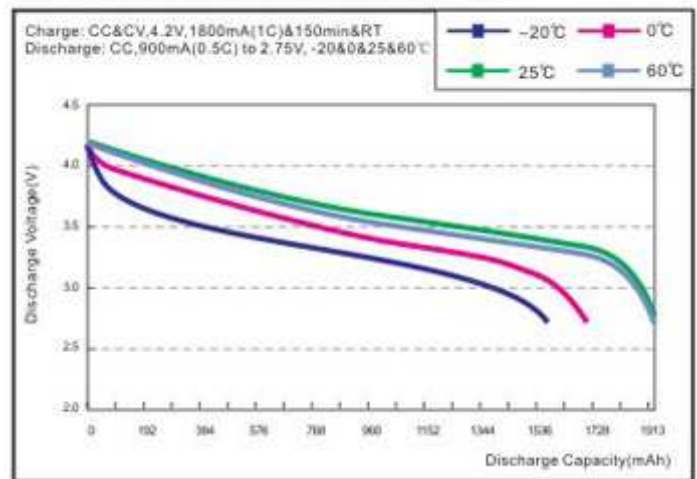
High Capacity Series

Characteristics:

Discharge rate characteristics



Discharge temperature characteristics



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Battery and Energy Modules

Through-Hole-Device THD-Lithium-Ion Cells



Iron-Phosphate Series

Features:

- Technology: Lithium-Iron-Phosphate; **3.2V**
- Temperature range: discharge: -20°C – 75°C
charge: 0°C – 45°C
- High Rate Discharge: 10C
- Miniaturized form factors
- Flat discharge profile
- Cycle life: 2000 cycles @ 0.5C discharge @ 70% remaining capacity @ 1.0 charge
1200 cycles @ 1.0C discharge @ 70% remaining capacity @ 1.0 charge

Product Portfolio:

Model	Capacity (mAh)	Rate	Diameter (mm)	Height (mm)	Weight (g)	IR (mΩ)	Voltage (V)
BE-FC1865	1300	10C	18.5 ± 0.15	65 + 0.5/ -0	36.8	25	3.2
BE-FC1650	750	10C	16 ± 0.15	50 + 0.5/ -0	23.0	30	3.2
BE-FC1450	500	10C	14 ± 0.15	50 + 0.5/ -0	16.5	30	3.2
BE-FC1340	350	10C	13 ± 0.15	40 + 0.5/ -0	10.8	45	3.2
BE-FC1330	200	10C	13 ± 0.15	30 + 0.5/ -0	8.3	80	3.2
BE-FC1025	100	10C	10 ± 0.15	25 + 0.5/ -0	3.8	180	3.2

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Battery and Energy Modules

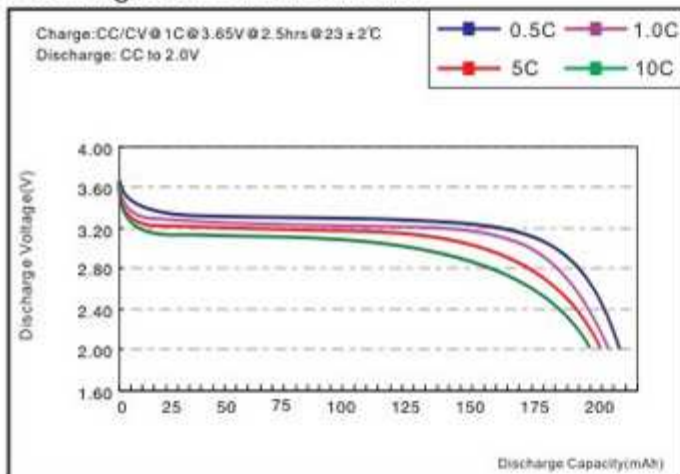
Through-Hole-Device THD-Lithium-Ion Cells



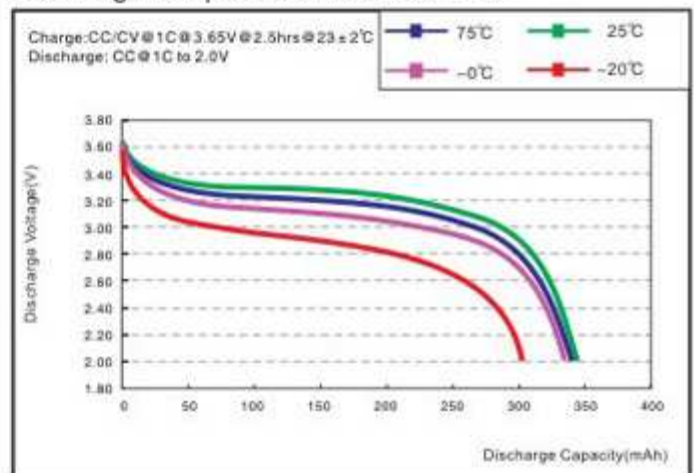
Iron-Phosphate Series

Characteristics:

Discharge rate characteristics



Discharge temperature characteristics



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Battery and Energy Modules

Through-Hole-Device THD-Lithium-Ion Cells



Titanate Series

Features:

- Technology: Lithium-Titanate; **2.4V**
- Temperature range: discharge: -35°C – 75°C
charge: 0°C – 45°C
- High Rate Discharge: 10C – 30C, depending on cell size
- Miniaturized form factors
- Flat discharge profile
- Cycle life: 5000 cycles @ 0.5C discharge @ 70% remaining capacity @ 1.0 charge
3000 cycles @ 1.0C discharge @ 70% remaining capacity @ 1.0 charge

Product Portfolio:

Model	Capacity (mAh)	Rate	Diameter (mm)	Height (mm)	Weight (g)	IR (mΩ)	Voltage (V)
BE-TC1865	1300	10C	18.5 ± 0.15	65 + 0.5/ -0	38.5	20	2.4
BE-TC1865	1100	10C	18.5 ± 0.15	65 + 0.5/ -0	37.5	20	2.4
BE-TC1450	500	20C	14 ± 0.15	50 + 0.5/ -0	16.6	30	2.4
BE-TC1335	250	30C	13 ± 0.15	35 + 0.5/ -0	9.5	40	2.4
BE-TC1030	100	30C	10 ± 0.15	30 + 0.5/ -0	4.7	100	2.4
BE-TC1020	50	30C	10 ± 0.15	20 + 0.5/ -0	3.05	120	2.4
BE-TC1015	40	30C	10 ± 0.15	15 + 0.5/ -0	2.4	150	2.4
BE-TC1010	20	30C	10 ± 0.15	10 + 0.5/ -0	1.6	0.5 Ω	2.4
BE-TC7212	8	30C	7.2 ± 0.15	12 + 0.5/ -0	0.85	2.0 Ω	2.4
BE-TC0407	1.8	20C	4.0 ± 0.15	7 + 0.5/ -0	0.22	8 Ω	2.4
BE-TC1045	150	20C	10 ± 0.15	45 + 0.5/ -0	6.8	60	1.8

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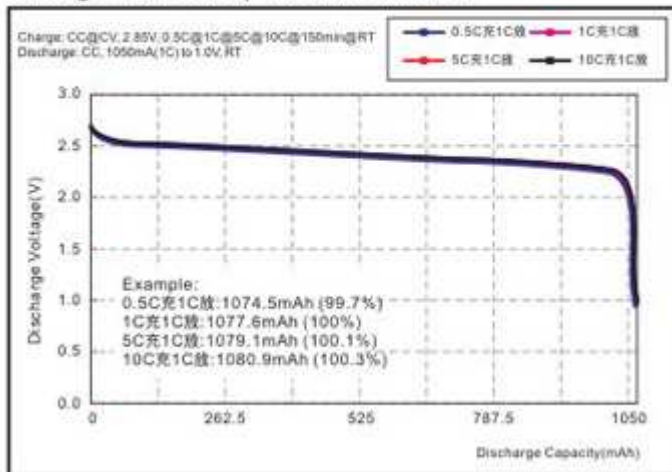
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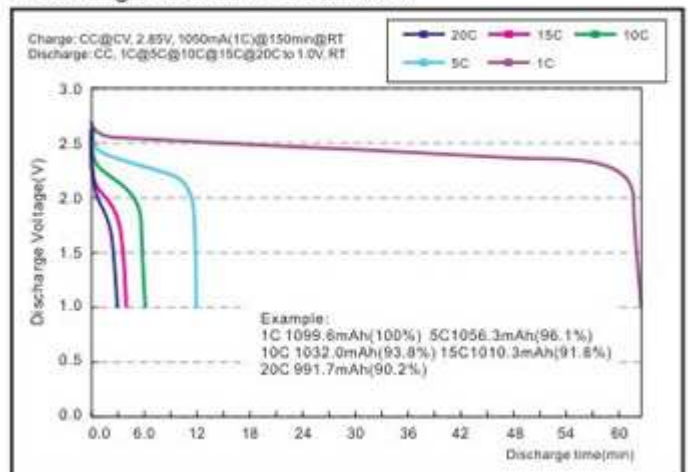
Titanate Series

Characteristics:

Charge efficiency characteristics



Discharge rate characteristics



Discharge temperature characteristics

