

CB6-180EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION



Crystal Batteries™ are a unique technology that overcomes conventional battery problems by having a nearly solid-state electrolyte. This allows the battery to be discharged deeper, cycle more often, has a longer lifetime and can withstand extreme temperatures.

The patented Crystal technology uses a unique advanced formula, a new type of composite SiO2 electrolyte developed to completely replace traditional sulphuric acid solutions.

TECHNICAL SPECIFICATIONS

SPECIFICATION

NOMINAL VOLTAGE	6V
RATED CAPACITY (3 HOUR RATE)	180Ah
WEIGHT	~ 33 kg / 72.8 lbs
DIMENSIONS	Height: 275mm (10.8") Length: 270mm (10.6") Width: 180mm (7.1")
CAPACITY 25 °C (77 °F)	10 hour rate (24A) - 240Ah 5 hour rate (40A) - 200Ah 2 hour rate (80A) - 160Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25°C (77 °F)	< 1.5mΩ
SELF- DISCHARGE 25°C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	1800A (5s)
TERMINAL	M8 (19)
(CHARGING) CYCLE	Initial Charging Current 36A 7.35V / 25°C (77°F)
(CHARGING) FLOAT	6.85V / 25 °C (77°F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	5.70
0.05C OF CURRENT CLOSE TO IT	5.55
0.1C OF CURRENT CLOSE TO IT	5.40
0.2C OF CURRENT CLOSE TO IT	5.25
FROM 0.2C TO 0.5C	5.10
FROM 0.5C TO 1C	4.80
FROM 1C TO 3C	4.50
CURRENT IN EXCESS OF 3C	3.90



CRYSTAL TECHNOLOGY

Our unique electrolyte crystallizes on the battery plates, giving the batteries their powerful features.



BETTER USAGE PERFORMANCE

Charges up to three times faster than conventional alternatives. Excellent high-current discharge.



FULL RECOVERY

Crystal Batteries™ can be 100% discharged and restored to full capacity.



PROVEN TRACK RECORD

Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.



THE SAFEST

No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.



UP TO 99% RECYCLABLE

A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

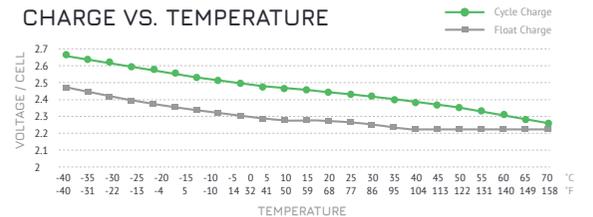
Extreme temperature resistance. Operates from -40°C (40°F) to +65°C (149°F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

CHARGE VS. TEMPERATURE



DATASHEET - CB6-180EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

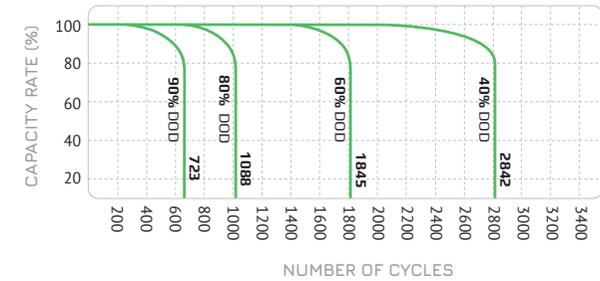
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	581	370	244	183	126	84.9	64.5	51.4	43.0	39.4	31.6	24.1	21.2	13.2	10.6
1.67V	500	336	226	174	125	83.8	63.0	50.3	42.1	37.6	30.4	23.6	20.8	12.9	10.6
1.70V	477	325	219	172	124	82.7	62.3	49.3	41.4	36.1	29.6	23.4	20.7	12.8	10.6
1.75V	434	304	210	165	123	81.7	61.6	48.3	40.8	34.7	28.7	23.2	20.5	12.6	10.6
1.80V	383	279	202	159	122	80.6	60.2	47.5	39.9	34.6	28.1	23.0	20.1	12.4	10.5
1.83V	335	255	187	148	119	79.5	58.7	45.5	39.1	33.3	27.1	22.3	19.2	12.3	10.2
1.85V	286	231	172	136	116	78.4	56.6	43.8	38.2	32.2	26.2	21.6	18.6	12.1	9.95

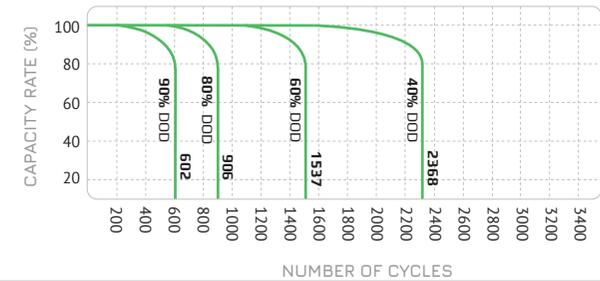
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	958	645	441	336	234	170	119	96.4	82.1	72.0	58.3	47.5	39.8	24.7	20.7
1.67V	856	601	413	322	234	164	119	96.0	80.4	71.2	57.1	46.4	39.8	24.7	20.7
1.70V	828	586	402	318	233	160	116	95.4	79.3	70.8	57.0	45.9	39.8	24.7	20.7
1.75V	764	551	388	308	232	155	114	93.9	78.6	69.7	55.8	45.5	39.8	24.7	20.6
1.80V	693	507	375	299	231	150	113	92.1	77.5	68.6	54.9	45.0	38.6	24.4	20.6
1.83V	612	470	350	280	230	144	113	89.2	76.9	66.7	53.0	43.9	37.7	24.4	20.1
1.85V	531	432	325	261	225	139	112	85.9	75.9	64.8	51.2	42.7	36.8	24.2	19.6

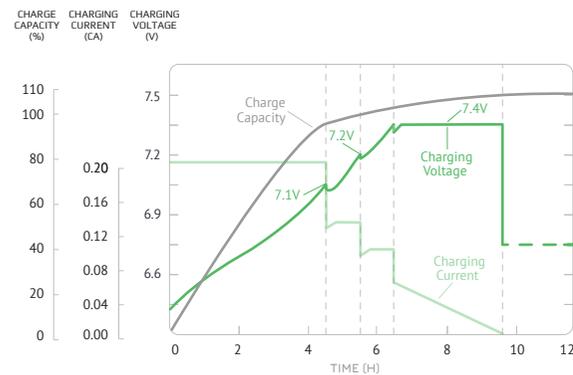
CYCLE LIFE CURVE GRAPH 25°C (77°F).



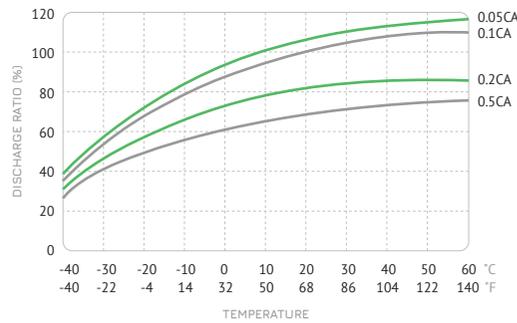
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.



CB6-210EV

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EXTREME TEMPERATURES

Extreme temperature resistance. Operates from -40°C (40°F) to +65°C (149°F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25°C (50% DoD).

TECHNICAL SPECIFICATIONS

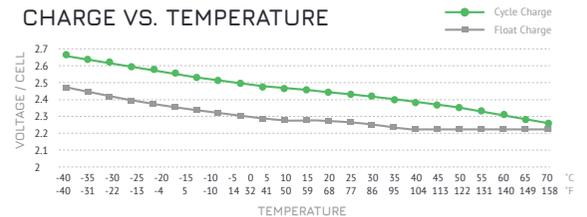
SPECIFICATION

NOMINAL VOLTAGE	6V
RATED CAPACITY (3 HOUR RATE)	210Ah
WEIGHT	~ 36 kg / 79.4 lbs
DIMENSIONS	Height: 275 mm (10.8") Length: 260mm (10.2") Width: 180mm (7.1")
CAPACITY 25 °C (77 °F)	10 hour rate (26A) - 260Ah 5 hour rate (45A) - 225Ah 2 hour rate (90A) - 180Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25°C (77 °F)	< 1.5mΩ
SELF-DISCHARGE 25°C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	2100A (5s)
TERMINAL	M8 (19)
(CHARGING) CYCLE	Initial Charging Current 42A 7.35V / 25°C (77°F)
(CHARGING) FLOAT	6.85V / 25 °C (77°F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	5.70
0.05C OF CURRENT CLOSE TO IT	5.55
0.1C OF CURRENT CLOSE TO IT	5.40
0.2C OF CURRENT CLOSE TO IT	5.25
FROM 0.2C TO 0.5C	5.10
FROM 0.5C TO 1C	4.80
FROM 1C TO 3C	4.50
CURRENT IN EXCESS OF 3C	3.90

CHARGE VS. TEMPERATURE



DATASHEET - CB6-210EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

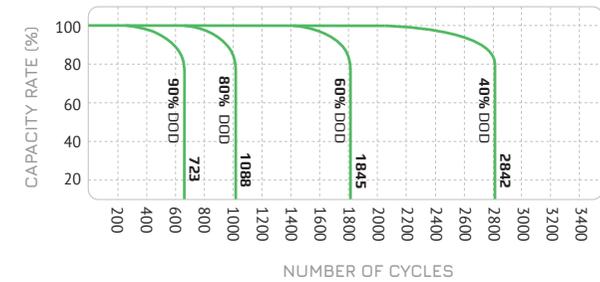
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	662	422	278	209	144	96.7	73.5	58.6	49.0	44.9	35.7	27.3	24.0	14.9	12.0
1.67V	569	382	257	198	142	95.5	71.8	57.3	48.0	42.8	34.4	26.7	23.6	14.6	12.0
1.70V	544	371	249	196	141	94.3	71.0	56.2	47.2	41.2	33.4	26.5	23.4	14.5	12.0
1.75V	494	347	240	188	140	93.1	70.2	55.1	46.5	39.6	32.5	26.2	23.1	14.3	11.9
1.80V	437	318	231	181	139	91.8	68.6	54.1	45.5	39.4	31.8	26.0	22.7	14.0	11.9
1.83V	381	290	213	168	135	90.6	66.9	51.9	44.5	37.9	30.6	25.2	21.7	13.9	11.5
1.85V	326	263	196	156	132	89.4	64.5	49.9	43.6	36.7	29.6	24.5	21.0	13.7	11.2

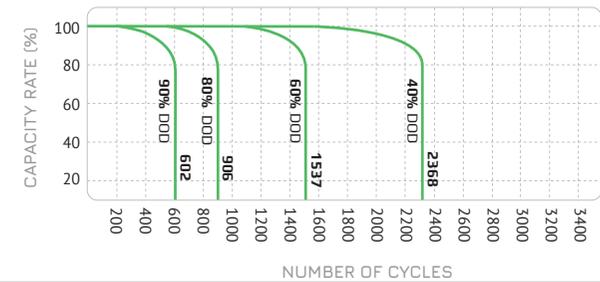
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	1092	735	503	383	267	194	136	109	93.6	82.1	65.9	53.7	45.0	27.9	23.4
1.67V	975	685	471	367	266	187	136	109	91.6	81.1	64.6	52.5	45.0	27.9	23.4
1.70V	944	667	458	363	266	183	132	108	90.3	80.6	64.4	51.9	45.0	27.9	23.4
1.75V	871	627	443	351	265	176	130	107	89.6	79.4	63.1	51.4	45.0	27.9	23.3
1.80V	790	578	428	340	264	171	129	105	88.4	78.2	62.0	50.9	43.7	27.6	23.3
1.83V	697	535	399	319	263	164	128	101	87.6	76.0	60.0	49.6	42.6	27.6	22.7
1.85V	605	492	371	297	262	158	127	97.9	86.5	73.8	57.9	48.3	41.6	27.4	22.1

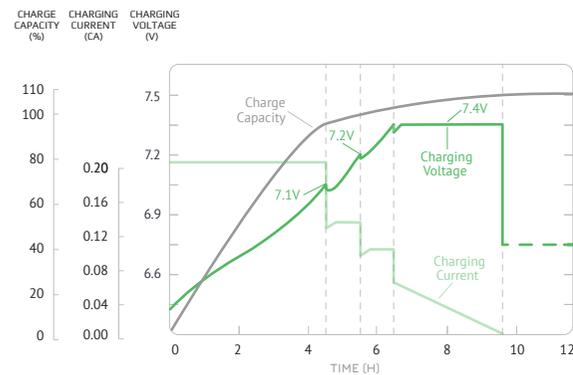
CYCLE LIFE CURVE GRAPH 25°C (77°F).



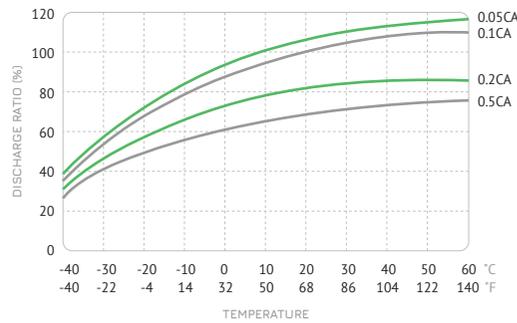
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.



DATASHEET



CB6-265EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION

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TECHNICAL SPECIFICATIONS

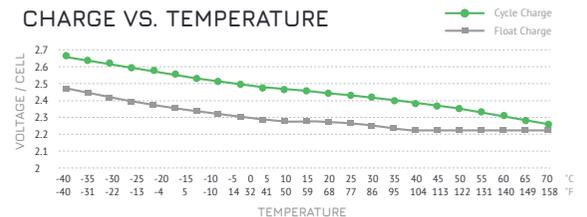
SPECIFICATION

NOMINAL VOLTAGE	6V
RATED CAPACITY (3 HOUR RATE)	265Ah
WEIGHT	~ 46.5 kg / 102.5 lbs
DIMENSIONS	Height: 350 mm (13.8") Length: 295 mm (11.6") Width: 175mm (6.9")
CAPACITY 25 °C (77 °F)	10 hour rate (30A) - 300Ah 5 hour rate (57A) - 285Ah 2 hour rate (116A) - 232Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25°C (77 °F)	< 1.0mΩ
SELF-DISCHARGE 25°C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	2650A (5s)
TERMINAL	M8 (19)
(CHARGING) CYCLE	Initial Charging Current 53A 7.35V / 25 °C (77 °F)
(CHARGING) FLOAT	6.85V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	5.70
0.05C OF CURRENT CLOSE TO IT	5.55
0.1C OF CURRENT CLOSE TO IT	5.40
0.2C OF CURRENT CLOSE TO IT	5.25
FROM 0.2C TO 0.5C	5.10
FROM 0.5C TO 1C	4.80
FROM 1C TO 3C	4.50
CURRENT IN EXCESS OF 3C	3.90

CHARGE VS. TEMPERATURE



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EXTREME TEMPERATURES

Extreme temperature resistance. Operates from -40°C (40°F) to +65°C (149°F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

DATASHEET - CB6-265EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

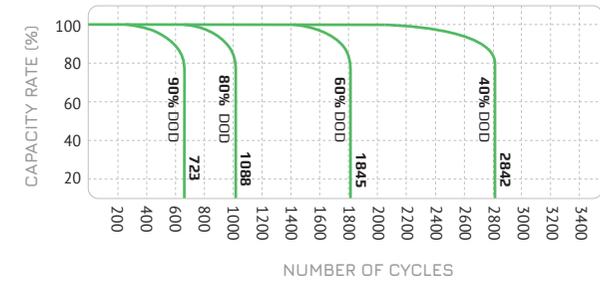
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	811	517	341	257	177	119	90.0	71.6	60.0	54.8	41.3	31.5	26.6	16.6	13.9
1.67V	698	469	316	243	175	117	88.8	70.1	58.5	52.5	39.8	30.9	26.6	16.6	13.9
1.70V	667	455	306	240	173	116	88.4	68.6	57.8	50.3	38.6	30.6	26.6	16.6	13.9
1.75V	606	425	294	231	172	114	87.3	67.5	56.6	48.4	37.5	30.3	26.3	16.6	13.8
1.80V	536	390	283	222	171	113	84.0	66.3	55.5	48.0	36.6	30.0	25.7	16.5	13.8
1.83V	468	356	261	207	167	111	81.8	63.6	54.4	46.5	35.4	29.1	25.1	16.4	13.4
1.85V	400	323	240	191	162	110	78.8	61.2	53.3	45.0	34.2	28.3	24.3	16.4	13.0

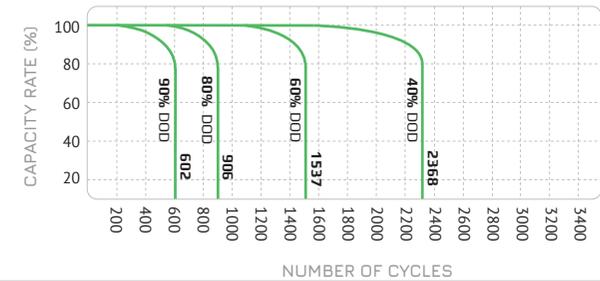
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	1336	900	617	470	327	237	167	135	115	101	76.5	62.4	52.2	32.4	27.2
1.67V	1194	838	575	447	327	230	167	135	111	99.9	75.0	60.9	52.2	32.4	27.2
1.70V	1156	819	560	443	326	224	163	134	109	99.3	74.7	60.3	52.2	32.4	27.2
1.75V	1066	770	541	429	324	216	160	132	106	97.8	73.2	59.7	52.2	32.4	27.1
1.80V	968	707	523	418	323	209	159	129	104	96.3	72.0	59.1	50.7	32.1	27.1
1.83V	853	653	489	391	322	202	158	125	100	93.6	69.6	57.6	49.5	32.1	26.4
1.85V	740	601	455	365	321	194	156	121	96.6	90.9	67.2	56.1	48.3	31.8	25.7

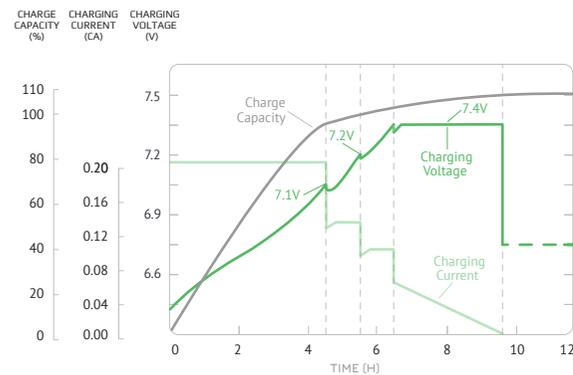
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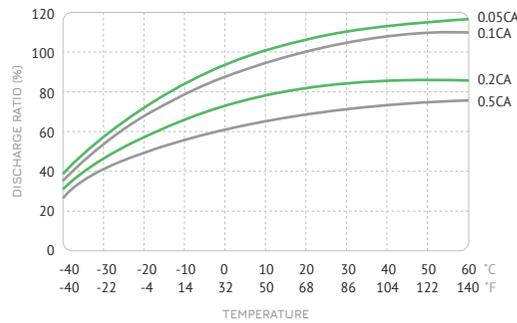
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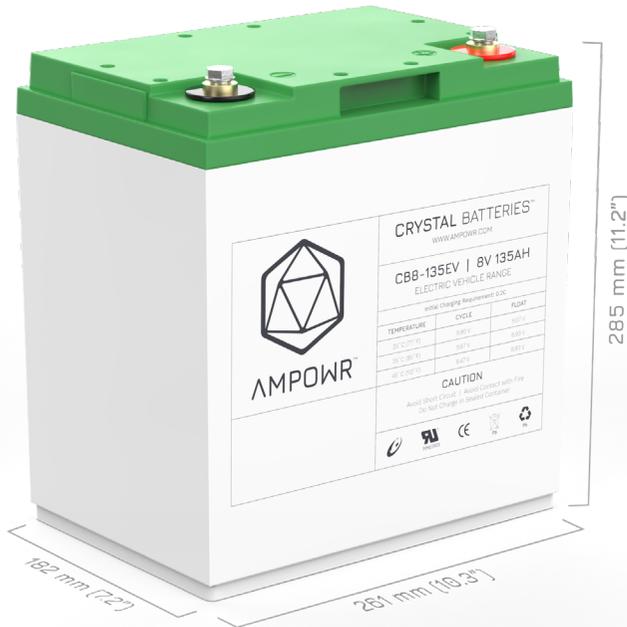


CB8-135EV

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A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

Extreme temperature resistance. Operates from -40°C (40°F) to +65°C (149°F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25°C (50% DoD).

TECHNICAL SPECIFICATIONS

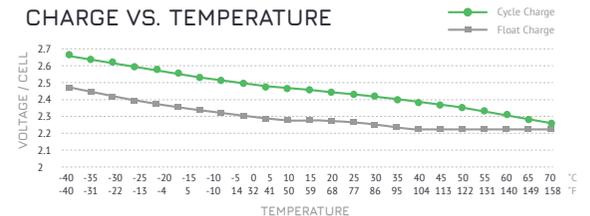
SPECIFICATION

NOMINAL VOLTAGE	8V
RATED CAPACITY (3 HOUR RATE)	135Ah
WEIGHT	~ 34 kg / 75 lbs
DIMENSIONS	Height: 285 mm (11.2") Length: 261 mm (10.3") Width: 182 mm (7.2")
CAPACITY 25 °C (77 °F)	10 hour rate (16.5A) - 165Ah 5 hour rate (30A) - 150Ah 2 hour rate (60A) - 120Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25°C (77 °F)	< 4.0mΩ
SELF- DISCHARGE 25°C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	1350A (5s)
TERMINAL	M8 (19)
(CHARGING) CYCLE	Initial Charging Current 27A 9.8V / 25 °C (77 °F)
(CHARGING) FLOAT	9.14V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	7.6
0.05C OF CURRENT CLOSE TO IT	7.4
0.1C OF CURRENT CLOSE TO IT	7.2
0.2C OF CURRENT CLOSE TO IT	7.0
FROM 0.2C TO 0.5C	6.8
FROM 0.5C TO 1C	6.4
FROM 1C TO 3C	6.0
CURRENT IN EXCESS OF 3C	5.2

CHARGE VS. TEMPERATURE



DATASHEET - CB8-135EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

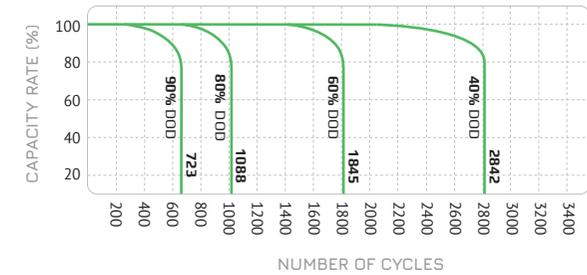
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	445	284	187	141	97.3	65.1	49.5	39.5	33.0	30.2	22.6	17.3	15.2	9.48	7.64
1.67V	383	257	173	133	96.1	64.3	48.4	38.6	32.3	28.8	21.8	16.9	14.9	9.32	7.64
1.70V	366	249	168	132	95.3	63.5	47.8	37.8	31.8	27.7	21.2	16.8	14.8	9.24	7.62
1.75V	333	233	161	126	94.5	62.7	47.3	37.1	31.3	26.6	20.6	16.6	14.7	9.07	7.60
1.80V	294	214	155	122	94.0	61.8	46.2	36.4	30.6	26.5	20.2	16.5	14.4	8.91	7.57
1.83V	257	195	143	113	91.5	61.0	45.1	34.9	30.0	25.5	19.4	16.0	13.7	8.82	7.35
1.85V	219	177	132	105	89.1	60.2	43.4	33.6	29.3	24.7	18.8	15.5	13.3	8.74	7.14

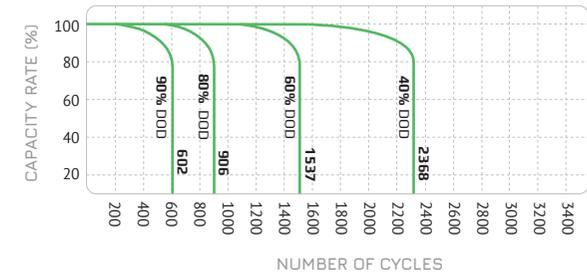
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	735	495	338	258	180	130	91.9	74.0	63.0	55.3	41.8	34.1	28.5	17.7	14.8
1.67V	657	461	317	247	179	126	91.8	73.7	61.7	54.6	41.0	33.3	28.4	17.7	14.8
1.70V	635	449	308	244	179	123	89.4	73.2	60.8	54.3	40.8	32.9	28.2	17.6	14.8
1.75V	587	422	298	237	178	119	88.1	72.0	60.3	53.5	40.0	32.6	28.0	17.6	14.8
1.80V	532	389	288	229	177	115	87.4	70.7	59.5	52.6	39.3	32.3	27.7	17.5	14.8
1.83V	470	360	269	215	177	110	86.7	68.4	59.0	51.2	38.0	31.5	27.0	17.5	14.4
1.85V	407	331	250	200	176	106	86.0	65.9	58.2	49.7	36.7	30.6	26.4	17.4	14.0

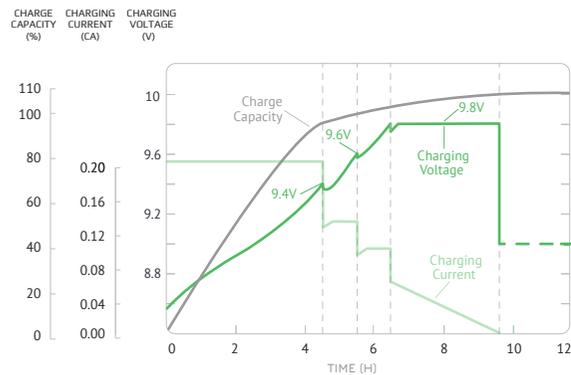
CYCLE LIFE CURVE GRAPH 25°C (77°F).



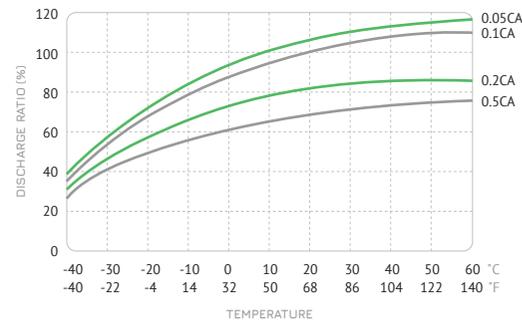
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.



CB12-27EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION



Crystal Batteries™ are a unique technology that overcomes conventional battery problems by having a nearly solid-state electrolyte. This allows the battery to be discharged deeper, cycle more often, has a longer lifetime and can withstand extreme temperatures.

The patented Crystal technology uses a unique advanced formula, a new type of composite SiO₂ electrolyte developed to completely replace traditional sulphuric acid solutions.

TECHNICAL SPECIFICATIONS

SPECIFICATION

NOMINAL VOLTAGE	12V
RATED CAPACITY (3 HOUR RATE)	27Ah
WEIGHT	~ 9.5 kg / 20.9 lbs
DIMENSIONS	Height: 125 mm (4.9") Length: 175 mm (6.9") Width: 66 mm (2.6")
CAPACITY 25 °C (77 °F)	10 hour rate (3.15A) - 31.5Ah 5 hour rate (6.0A) - 30Ah 2 hour rate (12A) - 24Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25 °C (77 °F)	< 12mΩ
SELF-DISCHARGE 25 °C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	270A (5s)
TERMINAL	M5 (10)
(CHARGING) CYCLE	Initial Charging Current 5.4A 14.7V / 25 °C (77 °F)
(CHARGING) FLOAT	13.7V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	11.4
0.05C OF CURRENT CLOSE TO IT	11.1
0.1C OF CURRENT CLOSE TO IT	10.8
0.2C OF CURRENT CLOSE TO IT	10.5
FROM 0.2C TO 0.5C	10.2
FROM 0.5C TO 1C	9.6
FROM 1C TO 3C	9.0
CURRENT IN EXCESS OF 3C	7.8



CRYSTAL TECHNOLOGY

Our unique electrolyte crystallizes on the battery plates, giving the batteries their powerful features.



BETTER USAGE PERFORMANCE

Charges up to three times faster than conventional alternatives. Excellent high-current discharge.



FULL RECOVERY

Crystal Batteries™ can be 100% discharged and restored to full capacity.



PROVEN TRACK RECORD

Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.



THE SAFEST

No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.



UP TO 99% RECYCLABLE

A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

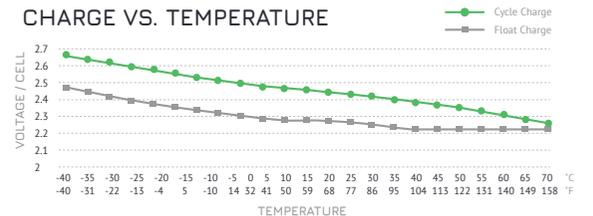
Extreme temperature resistance. Operates from -40 °C (40 °F) to +65 °C (149 °F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

CHARGE VS. TEMPERATURE



DATASHEET - CB12-27EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

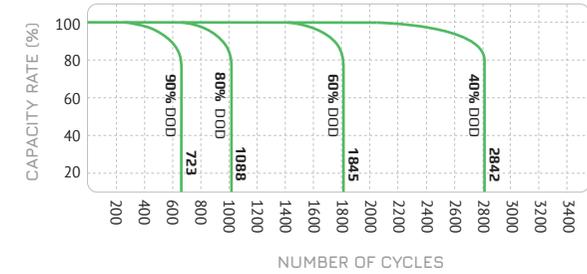
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	85.1	54.3	35.7	26.9	18.5	12.4	9.45	7.54	6.00	5.77	4.33	3.30	2.91	1.81	1.46
1.67V	73.2	49.2	33.1	25.5	18.3	12.2	9.24	7.37	5.88	5.51	4.17	3.24	2.86	1.78	1.46
1.70V	69.9	47.7	32.1	25.2	18.2	12.1	9.15	7.22	5.79	5.30	4.05	3.21	2.83	1.76	1.45
1.75V	63.6	44.6	30.8	24.2	18.0	11.9	9.03	7.08	5.70	5.09	3.93	3.18	2.80	1.73	1.45
1.80V	56.2	40.9	29.7	23.3	17.9	11.8	8.82	6.96	5.58	5.07	3.85	3.15	2.75	1.70	1.44
1.83V	49.1	37.3	27.4	21.6	17.4	11.6	8.61	6.67	5.46	4.88	3.71	3.05	2.63	1.68	1.40
1.85V	41.9	33.8	25.2	20.0	17.0	11.4	8.29	6.42	5.34	4.72	3.59	2.97	2.55	1.67	1.36

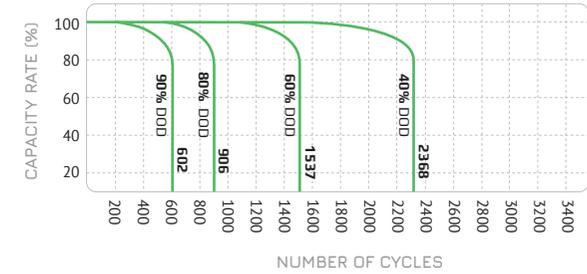
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	140	94.5	64.7	49.3	34.3	24.9	17.5	14.1	11.5	10.5	7.99	6.51	5.45	3.38	2.83
1.67V	125	88.1	60.5	47.1	34.3	24.1	17.5	14.0	11.2	10.4	7.83	6.36	5.45	3.38	2.83
1.70V	121	85.8	58.9	46.6	34.2	23.5	17.0	13.9	11.1	10.3	7.80	6.29	5.45	3.38	2.83
1.75V	112	80.7	56.9	45.2	34.0	22.7	16.8	13.7	11.0	10.2	7.64	6.23	5.45	3.38	2.83
1.80V	101	74.4	55.0	43.8	33.9	22.0	16.6	13.5	10.8	10.0	7.52	6.17	5.29	3.35	2.82
1.83V	89.7	68.8	51.3	41.0	33.8	21.1	16.5	13.0	10.7	9.78	7.27	6.01	5.17	3.35	2.75
1.85V	77.8	63.3	47.7	38.2	33.7	20.3	16.4	12.5	10.6	9.49	7.02	5.86	5.04	3.32	2.68

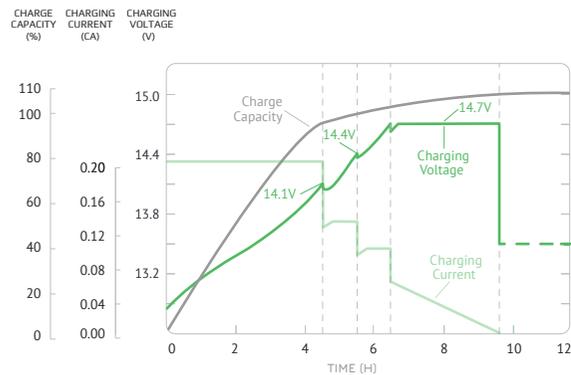
CYCLE LIFE CURVE GRAPH 25°C (77°F).



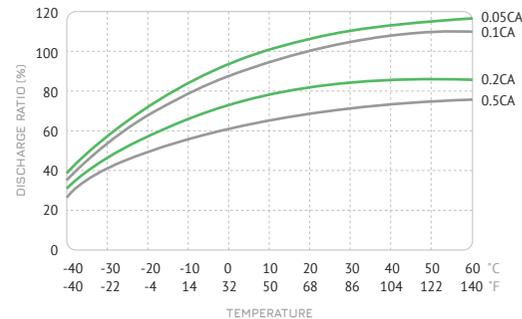
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.

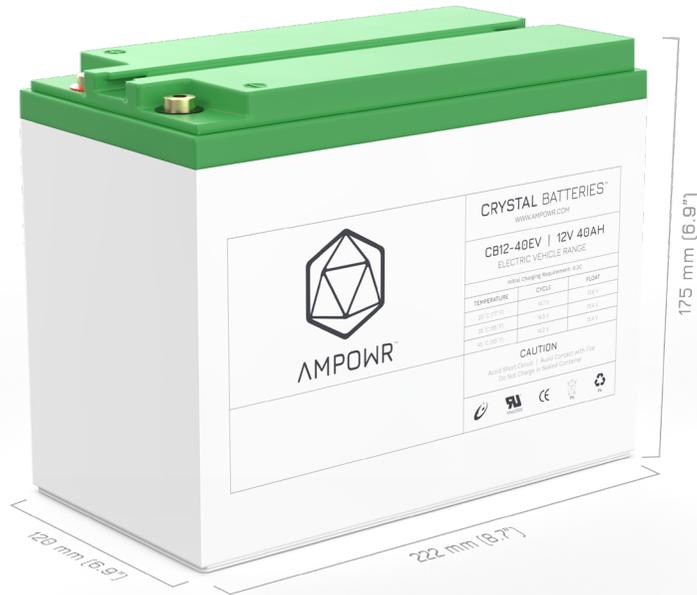


CB12-40EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION

Crystal Batteries™ are a unique technology that overcomes conventional battery problems by having a nearly solid-state electrolyte. This allows the battery to be discharged deeper, cycle more often, has a longer lifetime and can withstand extreme temperatures.

The patented Crystal technology uses a unique advanced formula, a new type of composite SiO2 electrolyte developed to completely replace traditional sulphuric acid solutions.



CRYSTAL TECHNOLOGY

Our unique electrolyte crystallizes on the battery plates, giving the batteries their powerful features.



BETTER USAGE PERFORMANCE

Charges up to three times faster than conventional alternatives. Excellent high-current discharge.



FULL RECOVERY

Crystal Batteries™ can be 100% discharged and restored to full capacity.



PROVEN TRACK RECORD

Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.



THE SAFEST

No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.



UP TO 99% RECYCLABLE

A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

Extreme temperature resistance. Operates from -40°C (40°F) to +65°C (149°F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25°C (50% DoD).

TECHNICAL SPECIFICATIONS

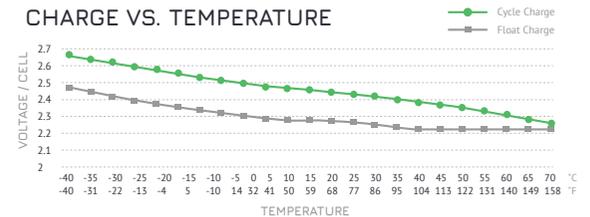
SPECIFICATION

NOMINAL VOLTAGE	12V
RATED CAPACITY (3 HOUR RATE)	40Ah
WEIGHT	~ 12.5 kg / 27.6 lbs
DIMENSIONS	Height: 175 mm (6.9") Length: 222 mm (8.7") Width: 120 mm (4.7")
CAPACITY 25 °C (77 °F)	10 hour rate (4.5A) - 45Ah 5 hour rate (8.5A) - 42.5Ah 2 hour rate (16A) - 32Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25°C (77 °F)	< 9mΩ
SELF-DISCHARGE 25°C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	400A (5s)
TERMINAL	M6 (12)
(CHARGING) CYCLE	Initial Charging Current 8A 14.7V / 25 °C (77 °F)
(CHARGING) FLOAT	13.7V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	11.4
0.05C OF CURRENT CLOSE TO IT	11.1
0.1C OF CURRENT CLOSE TO IT	10.8
0.2C OF CURRENT CLOSE TO IT	10.5
FROM 0.2C TO 0.5C	10.2
FROM 0.5C TO 1C	9.6
FROM 1C TO 3C	9.0
CURRENT IN EXCESS OF 3C	7.8

CHARGE VS. TEMPERATURE



DATASHEET - CB12-40EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

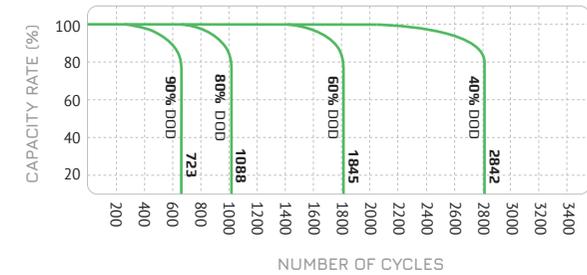
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	121	77.6	51.1	38.5	26.6	16.6	13.5	10.7	9.00	8.21	6.19	4.73	3.98	2.49	2.09
1.67V	104	70.3	47.4	36.5	26.2	16.4	13.2	10.5	8.78	7.88	5.96	4.64	3.98	2.49	2.09
1.70V	100	68.2	45.9	36.0	26.0	16.2	13.1	10.2	8.66	7.54	5.79	4.59	3.98	2.48	2.08
1.75V	90.9	63.8	44.1	34.6	25.8	16.0	12.9	10.1	8.48	7.26	5.63	4.55	3.95	2.48	2.07
1.80V	80.4	58.5	42.4	33.3	25.7	15.8	12.6	9.95	8.33	7.20	5.49	4.50	3.86	2.48	2.07
1.83V	70.2	53.4	39.2	31.0	25.0	15.5	12.3	9.54	8.16	6.98	5.31	4.37	3.76	2.47	2.01
1.85V	60.0	48.4	36.0	28.7	24.3	15.3	11.8	9.18	7.99	6.75	5.13	4.24	3.65	2.46	1.95

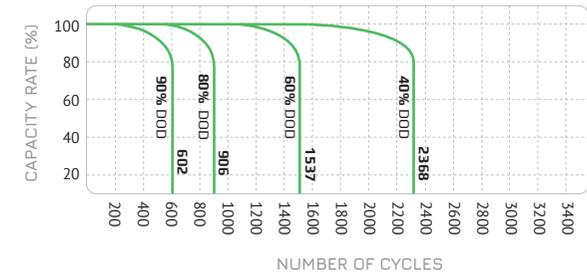
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	200	135	92.5	70.6	49.1	33.2	25.1	20.3	17.3	15.2	11.5	9.35	7.83	4.86	4.08
1.67V	179	125	86.3	67.0	49.0	32.2	25.0	20.2	16.7	15.0	11.2	9.13	7.83	4.86	4.08
1.70V	173	122	84.0	66.5	48.8	31.4	24.4	20.1	16.4	14.9	11.2	9.04	7.83	4.86	4.07
1.75V	159	115	81.2	64.4	48.7	30.3	24.0	19.8	16.0	14.7	11.0	8.95	7.83	4.86	4.07
1.80V	145	106	78.5	62.7	48.5	29.3	23.8	19.4	15.6	14.4	10.8	8.87	7.60	4.81	4.06
1.83V	127	98.0	73.4	58.7	48.3	28.3	23.6	18.8	15.1	14.0	10.4	8.64	7.42	4.81	3.96
1.85V	110	90.2	68.2	54.7	48.2	27.1	23.5	18.1	14.5	13.6	10.1	8.42	7.24	4.77	3.86

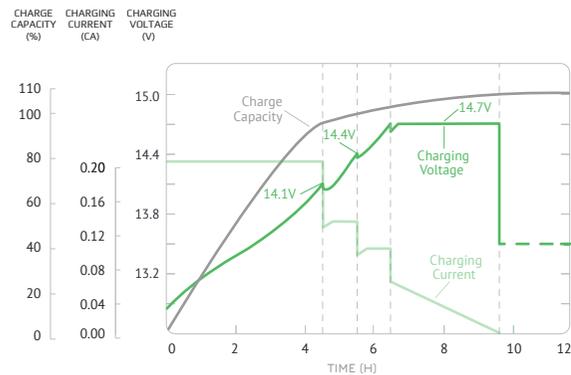
CYCLE LIFE CURVE GRAPH 25°C (77°F).



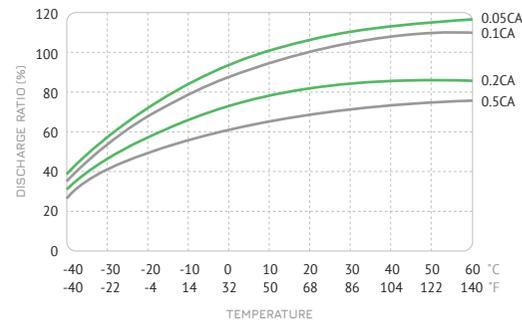
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.



CB12-60EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION



Crystal Batteries™ are a unique technology that overcomes conventional battery problems by having a nearly solid-state electrolyte. This allows the battery to be discharged deeper, cycle more often, has a longer lifetime and can withstand extreme temperatures.

The patented Crystal technology uses a unique advanced formula, a new type of composite SiO2 electrolyte developed to completely replace traditional sulphuric acid solutions.

TECHNICAL SPECIFICATIONS

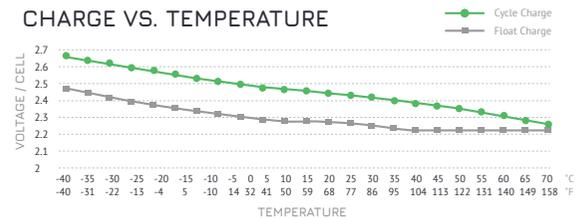
SPECIFICATION

NOMINAL VOLTAGE	12V
RATED CAPACITY (3 HOUR RATE)	60Ah
WEIGHT	~ 22.3 kg / 49.2 lbs
DIMENSIONS	Height: 215 mm (8.5") Length: 260 mm (10.2") Width: 169 mm (6.7")
CAPACITY 25 °C (77 °F)	10 hour rate (7.0A) - 70Ah 5 hour rate (13.2A) - 66Ah 2 hour rate (27A) - 54Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25 °C (77 °F)	< 8.5mΩ
SELF- DISCHARGE 25 °C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	600A (5s)
TERMINAL	M6 (16)
(CHARGING) CYCLE	Initial Charging Current 12A 14.7V / 25 °C (77 °F)
(CHARGING) FLOAT	13.7V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	11.4
0.05C OF CURRENT CLOSE TO IT	11.1
0.1C OF CURRENT CLOSE TO IT	10.8
0.2C OF CURRENT CLOSE TO IT	10.5
FROM 0.2C TO 0.5C	10.2
FROM 0.5C TO 1C	9.6
FROM 1C TO 3C	9.0
CURRENT IN EXCESS OF 3C	7.8

CHARGE VS. TEMPERATURE



CRYSTAL TECHNOLOGY

Our unique electrolyte crystallizes on the battery plates, giving the batteries their powerful features.



BETTER USAGE PERFORMANCE

Charges up to three times faster than conventional alternatives. Excellent high-current discharge.



FULL RECOVERY

Crystal Batteries™ can be 100% discharged and restored to full capacity.



PROVEN TRACK RECORD

Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.



THE SAFEST

No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.



UP TO 99% RECYCLABLE

A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

Extreme temperature resistance. Operates from -40 °C (40 °F) to +65 °C (149 °F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

DATASHEET - CB12-60EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

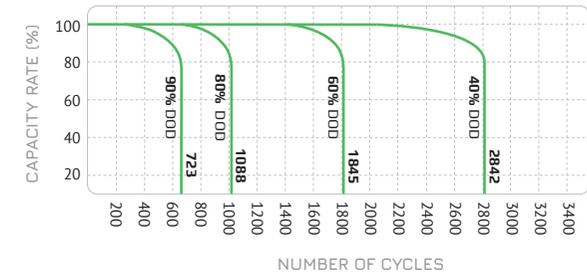
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	189	120	79.5	59.8	41.3	27.6	21.0	16.7	14.0	12.7	9.63	7.35	6.20	3.87	3.24
1.67V	162	109	73.7	56.7	40.7	27.3	20.4	16.3	13.6	12.2	9.28	7.21	6.20	3.87	3.24
1.70V	155	106	71.4	56.0	40.4	26.9	20.3	16.0	13.4	11.7	9.01	7.14	6.20	3.86	3.23
1.75V	141	99.2	68.6	53.8	40.0	26.6	20.1	15.7	13.2	11.2	8.75	7.07	6.14	3.86	3.23
1.80V	125	90.9	66.0	51.8	39.9	26.2	19.6	15.4	12.9	11.2	8.54	7.00	6.01	3.85	3.21
1.83V	109	83.0	60.9	48.2	38.8	25.9	19.0	14.8	12.6	10.8	8.26	6.79	5.85	3.84	3.12
1.85V	93.3	75.2	56.0	44.6	37.8	25.5	18.3	14.2	12.4	10.5	7.98	6.60	5.68	3.83	3.03

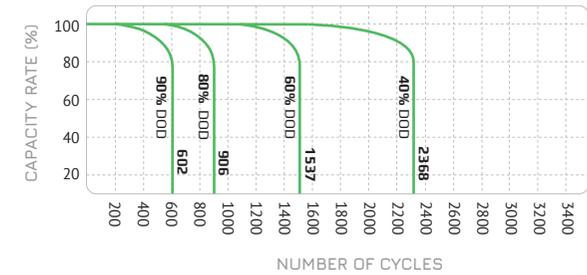
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	312	210	144	109	76.4	55.4	39.0	31.6	26.9	23.6	17.8	14.5	12.2	7.56	6.34
1.67V	279	196	134	104	76.2	53.6	38.9	31.4	26.0	23.3	17.5	14.2	12.2	7.56	6.34
1.70V	270	191	131	103	76.0	52.3	37.9	31.2	25.5	23.2	17.4	14.1	12.2	7.56	6.34
1.75V	249	180	126	100	75.7	50.5	37.4	30.7	24.9	22.8	17.1	13.9	12.2	7.56	6.33
1.80V	226	165	122	97.5	75.5	48.8	37.1	30.2	24.3	22.5	16.8	13.8	11.8	7.49	6.31
1.83V	199	152	114	91.3	75.2	47.1	36.8	29.2	23.4	21.8	16.2	13.4	11.5	7.49	6.15
1.85V	173	140	106	85.1	74.9	45.2	36.5	28.1	22.5	21.2	15.7	13.1	11.3	7.42	6.00

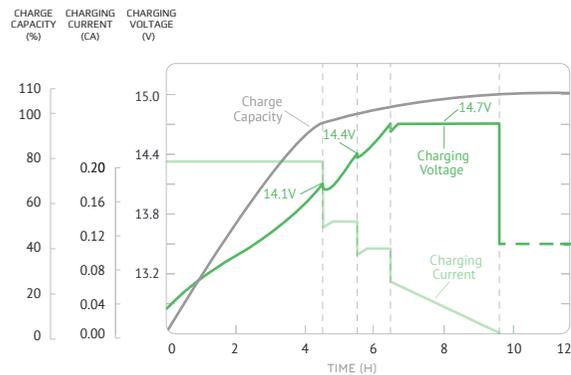
CYCLE LIFE CURVE GRAPH 25°C (77°F).



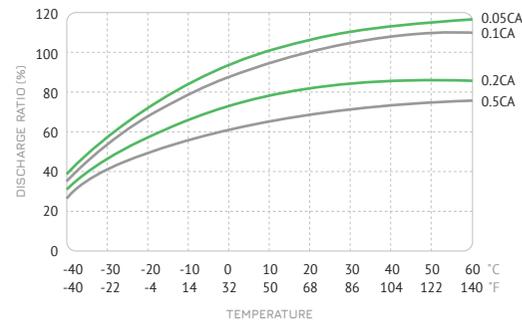
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).

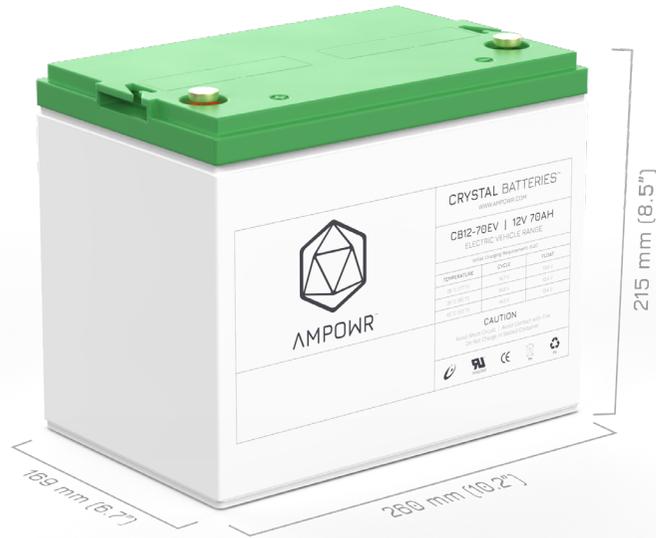


TEMPERATURE & DISCHARGE CAPACITY.



CB12-70EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION



Crystal Batteries™ are a unique technology that overcomes conventional battery problems by having a nearly solid-state electrolyte. This allows the battery to be discharged deeper, cycle more often, has a longer lifetime and can withstand extreme temperatures.

The patented Crystal technology uses a unique advanced formula, a new type of composite SiO2 electrolyte developed to completely replace traditional sulphuric acid solutions.

TECHNICAL SPECIFICATIONS

SPECIFICATION

NOMINAL VOLTAGE	12V
RATED CAPACITY (3 HOUR RATE)	70Ah
WEIGHT	~ 25.5 kg / 56.2 lbs
DIMENSIONS	Height: 215 mm (8.5") Length: 260 mm (10.2") Width: 169 mm (6.7")
CAPACITY 25 °C (77 °F)	10 hour rate (8A) - 80Ah 5 hour rate (15.4A) - 77Ah 2 hour rate (30A) - 60Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25 °C (77 °F)	< 8mΩ
SELF- DISCHARGE 25 °C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	700A (5s)
TERMINAL	M6 (16)
(CHARGING) CYCLE	Initial Charging Current 14A 14.7V / 25 °C (77 °F)
(CHARGING) FLOAT	13.7V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	11.4
0.05C OF CURRENT CLOSE TO IT	11.1
0.1C OF CURRENT CLOSE TO IT	10.8
0.2C OF CURRENT CLOSE TO IT	10.5
FROM 0.2C TO 0.5C	10.2
FROM 0.5C TO 1C	9.6
FROM 1C TO 3C	9.0
CURRENT IN EXCESS OF 3C	7.8



CRYSTAL TECHNOLOGY

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BETTER USAGE PERFORMANCE

Charges up to three times faster than conventional alternatives. Excellent high-current discharge.



FULL RECOVERY

Crystal Batteries™ can be 100% discharged and restored to full capacity.



PROVEN TRACK RECORD

Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.



THE SAFEST

No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.



UP TO 99% RECYCLABLE

A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

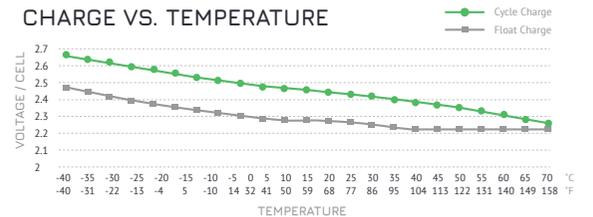
Extreme temperature resistance. Operates from -40 °C (40 °F) to +65 °C (149 °F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

CHARGE VS. TEMPERATURE



DATASHEET - CB12-70EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

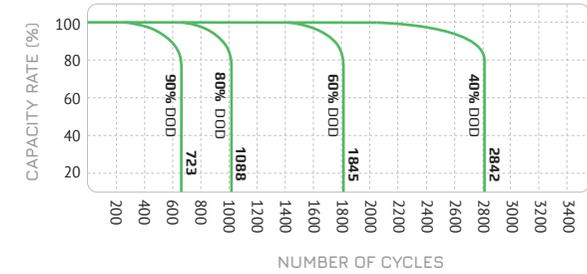
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	216	137	90.8	68.4	47.2	31.6	24.0	19.1	16.0	14.6	11.0	8.40	7.40	4.60	3.70
1.67V	186	125	84.2	64.8	46.6	31.2	23.4	18.7	15.6	14.0	10.6	8.24	7.26	4.52	3.70
1.70V	177	121	81.6	64.0	46.2	30.8	23.3	18.3	15.4	13.4	10.3	8.16	7.20	4.48	3.69
1.75V	161	113	78.4	61.5	45.8	30.4	23.0	18.0	15.2	12.9	10.0	8.08	7.13	4.40	3.68
1.80V	142	103	75.4	59.2	45.6	30.0	22.4	17.6	14.8	12.8	9.80	8.00	7.00	4.32	3.67
1.83V	124	94.9	69.6	55.0	44.4	29.6	21.8	16.9	14.5	12.4	9.44	7.76	6.68	4.28	3.56
1.85V	106	86.0	64.0	50.9	43.2	29.2	21.0	16.3	14.2	12.0	9.12	7.54	6.48	4.24	3.46

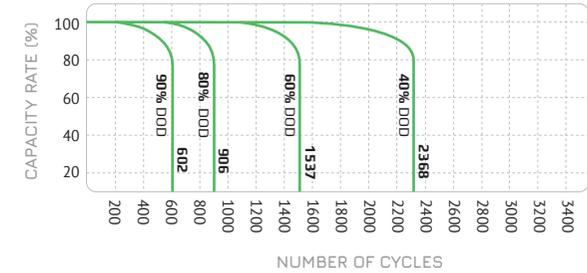
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	356	240	164	125	87.3	63.3	44.5	35.8	30.5	26.8	20.2	16.5	13.8	8.59	7.21
1.67V	318	223	153	119	87.1	61.3	44.5	35.7	29.9	26.5	19.8	16.1	13.8	8.59	7.21
1.70V	308	218	149	118	86.8	59.7	43.3	35.4	29.5	26.3	19.8	15.9	13.8	8.59	7.20
1.75V	284	205	144	114	86.5	57.7	42.7	34.9	29.2	25.9	19.4	15.8	13.8	8.59	7.19
1.80V	258	188	139	111	86.2	55.8	42.3	34.3	28.8	25.5	19.1	15.6	13.4	8.51	7.17
1.83V	227	174	130	104	85.9	53.8	42.0	33.1	28.6	24.8	18.4	15.2	13.1	8.51	6.99
1.85V	197	160	121	97.2	85.6	51.7	41.7	31.9	28.2	24.1	17.8	14.8	12.8	8.43	6.82

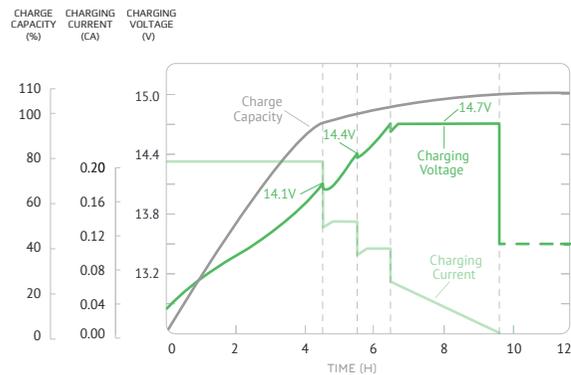
CYCLE LIFE CURVE GRAPH 25°C (77°F).



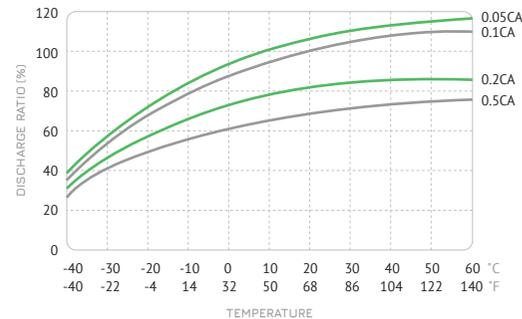
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).

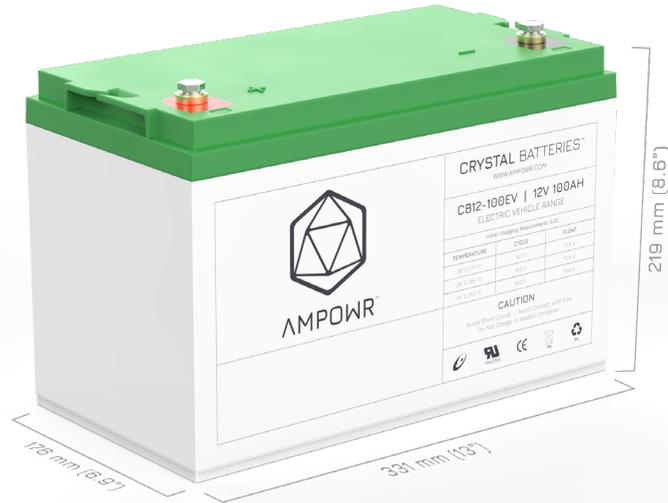


TEMPERATURE & DISCHARGE CAPACITY.



CB12-100EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION



Crystal Batteries™ are a unique technology that overcomes conventional battery problems by having a nearly solid-state electrolyte. This allows the battery to be discharged deeper, cycle more often, has a longer lifetime and can withstand extreme temperatures.

The patented Crystal technology uses a unique advanced formula, a new type of composite SiO2 electrolyte developed to completely replace traditional sulphuric acid solutions.

TECHNICAL SPECIFICATIONS

SPECIFICATION

NOMINAL VOLTAGE	12V
RATED CAPACITY (3 HOUR RATE)	100Ah
WEIGHT	~ 34 kg / 75 lbs
DIMENSIONS	Height: 219 mm (8.6") Length: 331 mm (13") Width: 176 mm (6.9")
CAPACITY 25 °C (77 °F)	10 hour rate (11.5A) - 115Ah 5 hour rate (22A) - 110Ah 2 hour rate (44A) - 88Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25 °C (77 °F)	< 6.5mΩ
SELF- DISCHARGE 25 °C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	1000A (5s)
TERMINAL	M8 (19)
(CHARGING) CYCLE	Initial Charging Current 20A 14.7V / 25 °C (77 °F)
(CHARGING) FLOAT	13.7V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	11.4
0.05C OF CURRENT CLOSE TO IT	11.1
0.1C OF CURRENT CLOSE TO IT	10.8
0.2C OF CURRENT CLOSE TO IT	10.5
FROM 0.2C TO 0.5C	10.2
FROM 0.5C TO 1C	9.6
FROM 1C TO 3C	9.0
CURRENT IN EXCESS OF 3C	7.8



CRYSTAL TECHNOLOGY

Our unique electrolyte crystallizes on the battery plates, giving the batteries their powerful features.



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Charges up to three times faster than conventional alternatives. Excellent high-current discharge.



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Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.



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No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.



UP TO 99% RECYCLABLE

A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

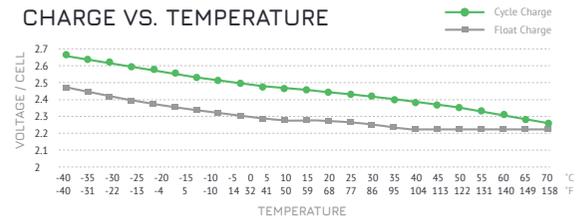
Extreme temperature resistance. Operates from -40 °C (40 °F) to +65 °C (149 °F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

CHARGE VS. TEMPERATURE



DATASHEET - CB12-100EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

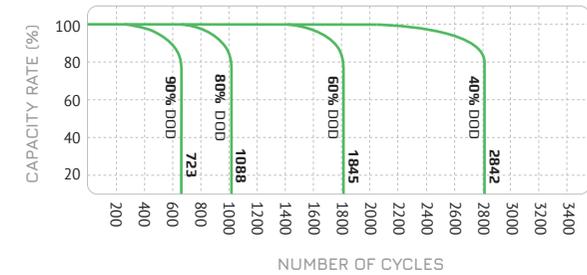
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	310	198	130	98.3	67.8	45.4	34.5	27.5	23.0	21.0	15.8	12.0	10.6	6.61	5.33
1.67V	267	179	121	93.1	67.0	44.8	33.7	26.9	22.5	20.1	15.2	11.8	10.4	6.50	5.33
1.70V	255	174	117	92.0	66.4	44.2	33.3	26.3	22.2	19.3	14.8	11.7	10.3	6.44	5.31
1.75V	232	163	112	88.4	65.9	43.7	32.9	25.8	21.8	18.5	14.3	11.6	10.2	6.33	5.30
1.80V	205	149	108	85.2	65.5	43.1	32.2	25.4	21.3	18.5	14.0	11.5	10.0	6.21	5.28
1.83V	179	136	100	79.2	63.8	42.5	31.4	24.3	20.9	17.8	13.5	11.1	9.60	6.15	5.13
1.85V	153	123	92.0	73.2	62.1	41.9	30.2	23.4	20.4	17.2	13.1	10.8	9.33	6.10	4.98

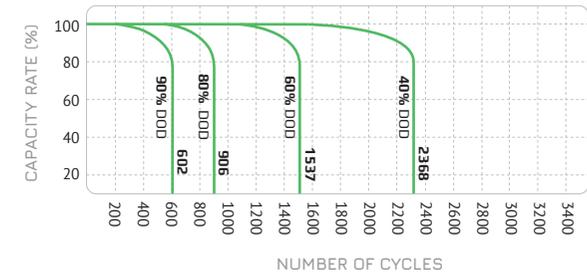
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	512	345	236	180	125	91.1	64.1	51.6	43.9	38.6	29.2	23.8	19.9	12.4	10.4
1.67V	458	321	221	172	125	88.2	64.0	51.4	43.0	38.1	28.6	23.2	19.9	12.4	10.4
1.70V	443	313	215	170	124	85.9	62.4	51.0	42.4	37.9	28.5	23.0	19.9	12.4	10.4
1.75V	409	294	208	165	124	83.1	61.5	50.2	42.1	37.3	27.9	22.8	19.9	12.4	10.3
1.80V	370	271	200	160	124	80.3	60.9	49.3	41.5	36.7	27.5	22.5	19.3	12.2	10.3
1.83V	327	251	187	149	123	77.3	60.5	47.7	41.2	35.7	26.5	22.0	18.9	12.2	10.1
1.85V	284	231	174	139	123	74.4	60.0	46.0	40.6	34.7	25.6	21.4	18.4	12.1	9.81

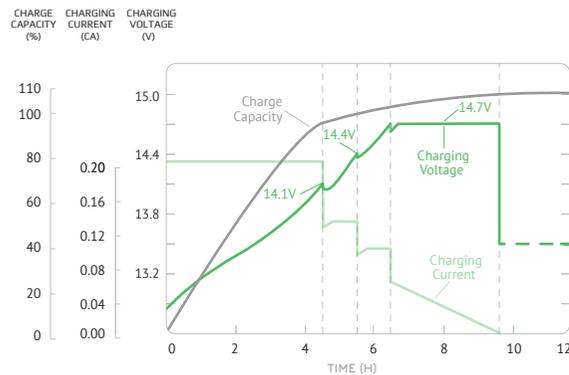
CYCLE LIFE CURVE GRAPH 25°C (77°F).



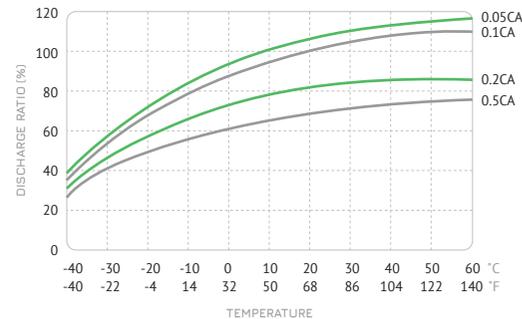
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.

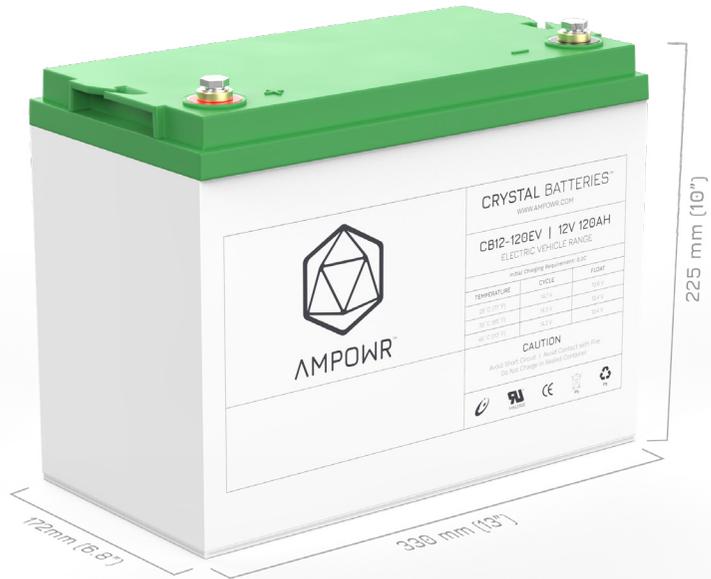


CB12-120EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION

Crystal Batteries™ are a unique technology that overcomes conventional battery problems by having a nearly solid-state electrolyte. This allows the battery to be discharged deeper, cycle more often, has a longer lifetime and can withstand extreme temperatures.

The patented Crystal technology uses a unique advanced formula, a new type of composite SiO2 electrolyte developed to completely replace traditional sulphuric acid solutions.



TECHNICAL SPECIFICATIONS

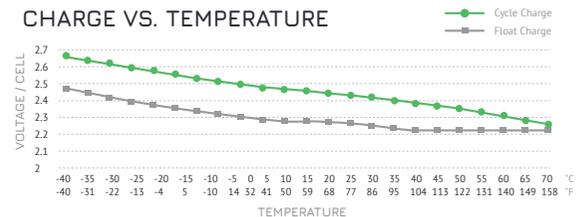
SPECIFICATION

NOMINAL VOLTAGE	12V
RATED CAPACITY (3 HOUR RATE)	120Ah
WEIGHT	~ 40 kg / 88.2 lbs
DIMENSIONS	Height: 225 mm (10") Length: 330 mm (13") Width: 172 mm (6.8")
CAPACITY 25 °C (77 °F)	10 hour rate (14A) - 140Ah 5 hour rate (26.6A) - 133Ah 2 hour rate (53A) - 106Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25 °C (77 °F)	< 6mΩ
SELF- DISCHARGE 25 °C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	1200A (5s)
TERMINAL	M6 (16)
(CHARGING) CYCLE	Initial Charging Current 24A 14.7V / 25 °C (77 °F)
(CHARGING) FLOAT	13.7V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	11.4
0.05C OF CURRENT CLOSE TO IT	11.1
0.1C OF CURRENT CLOSE TO IT	10.8
0.2C OF CURRENT CLOSE TO IT	10.5
FROM 0.2C TO 0.5C	10.2
FROM 0.5C TO 1C	9.6
FROM 1C TO 3C	9.0
CURRENT IN EXCESS OF 3C	7.8

CHARGE VS. TEMPERATURE



- CRYSTAL TECHNOLOGY**
Our unique electrolyte crystallizes on the battery plates, giving the batteries their powerful features.
- BETTER USAGE PERFORMANCE**
Charges up to three times faster than conventional alternatives. Excellent high-current discharge.
- FULL RECOVERY**
Crystal Batteries™ can be 100% discharged and restored to full capacity.
- PROVEN TRACK RECORD**
Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.

- THE SAFEST**
No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.
- UP TO 99% RECYCLABLE**
A sustainable circular economy, less acid, no antimony or cadmium.
- EXTREME TEMPERATURES**
Extreme temperature resistance. Operates from -40 °C (40 °F) to +65 °C (149 °F).
- LONG BATTERY LIFE**
A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

DATASHEET - CB12-120EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

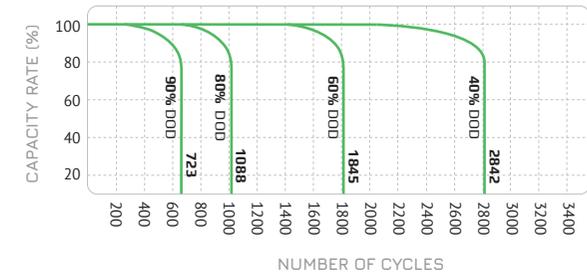
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	378.3	241.3	159.0	119.7	82.6	55.3	42.0	33.5	28.0	25.6	19.2	14.7	12.9	8.05	6.48
1.67V	325.6	218.8	147.4	113.4	81.6	54.6	41.0	32.7	27.4	24.5	18.5	14.4	12.7	7.91	6.48
1.70V	311.0	212.1	142.8	112.0	80.9	53.9	40.6	32.1	27.0	23.5	18.0	14.2	12.6	7.84	6.46
1.75V	282.7	198.5	137.2	107.6	80.2	53.2	40.1	31.5	26.6	22.6	17.5	14.1	12.4	7.70	6.45
1.80V	250.0	181.8	132.0	103.7	79.8	52.5	39.2	30.9	26.0	22.5	17.1	14.0	12.2	7.56	6.42
1.83V	218.2	166.1	121.9	96.4	77.7	51.8	38.2	29.6	25.4	21.7	16.5	13.5	11.6	7.49	6.24
1.85V	186.6	150.5	112.0	89.1	75.6	51.1	36.8	28.5	24.9	21.0	15.9	13.2	11.3	7.42	6.06

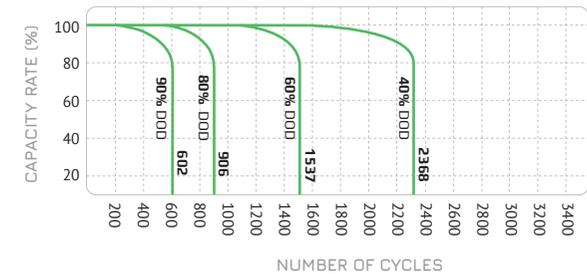
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	624.1	420.2	287.6	219.2	152.8	110.8	78.0	62.8	53.4	46.9	35.5	28.9	24.2	15.0	12.6
1.67V	557.5	391.8	269.2	209.7	152.5	107.4	77.9	62.5	52.3	46.3	34.8	28.2	24.2	15.0	12.6
1.70V	539.5	381.6	261.8	207.5	152.0	104.6	75.9	62.1	51.6	46.1	34.7	27.9	24.2	15.0	12.6
1.75V	498.1	358.8	253.2	201.1	151.4	101.1	74.8	61.1	51.2	45.4	33.9	27.7	24.2	15.0	12.5
1.80V	451.5	330.6	244.5	194.7	150.9	97.7	74.1	60.0	50.5	44.7	33.4	27.4	23.5	14.9	12.5
1.83V	398.7	306.1	228.4	182.4	150.3	94.1	73.6	58.0	50.1	43.4	32.3	26.7	22.9	14.9	12.2
1.85V	345.9	281.6	212.2	170.2	149.9	90.5	73.0	55.9	49.4	42.2	31.2	26.0	22.4	14.7	11.9

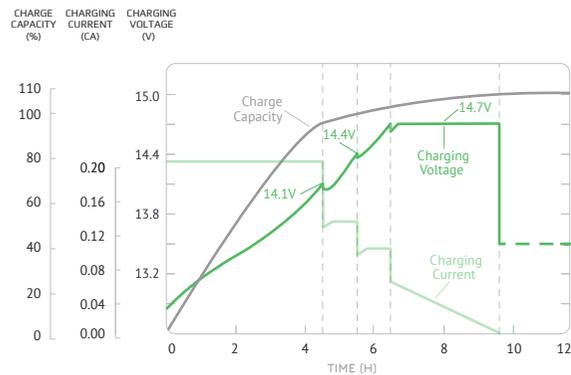
CYCLE LIFE CURVE GRAPH 25°C (77°F).



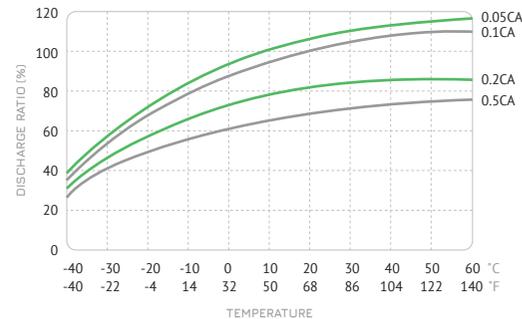
CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.



CB12-150EV

CRYSTAL BATTERY™ - EV LIGHT TRACTION

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The patented Crystal technology uses a unique advanced formula, a new type of composite SiO2 electrolyte developed to completely replace traditional sulphuric acid solutions.



TECHNICAL SPECIFICATIONS

SPECIFICATION

NOMINAL VOLTAGE	12V
RATED CAPACITY (3 HOUR RATE)	150Ah
WEIGHT	~ 49 kg / 108 lbs
DIMENSIONS	Height: 241 mm (9.5") Length: 486 mm (19.1") Width: 170 mm (6.7")
CAPACITY 25 °C (77 °F)	10 hour rate (17A) - 170Ah 5 hour rate (31A) - 155Ah 2 hour rate (65A) - 130Ah
INTERNAL RESISTANCE - FULLY CHARGED BATTERY 25 °C (77 °F)	< 6mΩ
SELF- DISCHARGE 25 °C (77 °F) (STORAGE CAPACITY)	Capacity after 3 month - 95% Capacity after 6 month - 85% Capacity after 12 month - 80%
MAX DISCHARGE CURRENT 25 °C (77 °F)	1500A (5s)
TERMINAL	M8 (20)
(CHARGING) CYCLE	Initial Charging Current 30A 14.7V / 25 °C (77 °F)
(CHARGING) FLOAT	13.7V / 25 °C (77 °F)

DISCHARGE CURRENT AND END VOLTAGE

DISCHARGE CURRENT (A)	End voltage (V)
0.05C OR BELOW OR INTERMITTENT DISCHARGE	11.4
0.05C OF CURRENT CLOSE TO IT	11.1
0.1C OF CURRENT CLOSE TO IT	10.8
0.2C OF CURRENT CLOSE TO IT	10.5
FROM 0.2C TO 0.5C	10.2
FROM 0.5C TO 1C	9.6
FROM 1C TO 3C	9.0
CURRENT IN EXCESS OF 3C	7.8



CRYSTAL TECHNOLOGY

Our unique electrolyte crystallizes on the battery plates, giving the batteries their powerful features.



BETTER USAGE PERFORMANCE

Charges up to three times faster than conventional alternatives. Excellent high-current discharge.



FULL RECOVERY

Crystal Batteries™ can be 100% discharged and restored to full capacity.



PROVEN TRACK RECORD

Crystal Batteries™ have been successfully used in the telecom, industrial EV and storage markets.



THE SAFEST

No risk of thermal runaway, spontaneous combustion, no leakage, and fewer harmful chemicals.



UP TO 99% RECYCLABLE

A sustainable circular economy, less acid, no antimony or cadmium.



EXTREME TEMPERATURES

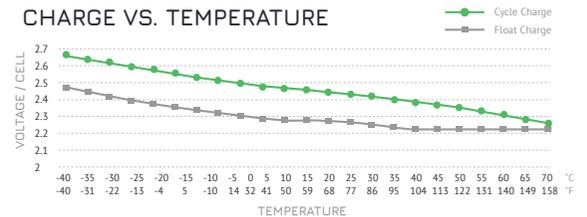
Extreme temperature resistance. Operates from -40 °C (40 °F) to +65 °C (149 °F).



LONG BATTERY LIFE

A float service life of up to 11 years. Up to 3,100 charge / discharge cycles at 25 °C (50% DoD).

CHARGE VS. TEMPERATURE



DATASHEET - CB12-150EV

CELL CHARGE VOLTAGE VS. TEMPERATURE CHART

Temperature (°C)	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Temperature (°F)	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140	149	158
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge	2.46	2.44	2.42	2.42	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

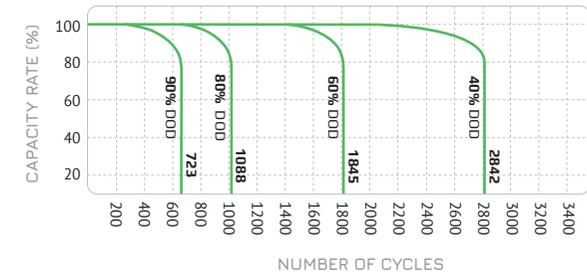
CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	459	293	193	145	100	67.2	51.0	40.7	33.3	31.2	23.3	17.8	15.7	9.78	7.88
1.67V	395	265	179	137	99.1	66.3	49.9	39.8	32.8	29.8	22.5	17.5	15.4	9.61	7.88
1.70V	377	257	173	136	98.3	65.5	49.3	39.0	32.0	28.6	21.8	17.3	15.3	9.52	7.85
1.75V	343	241	166	130	97.4	64.6	48.7	38.3	31.3	27.5	21.2	17.1	15.1	9.35	7.84
1.80V	303	220	160	126	96.9	63.8	47.6	37.6	30.6	27.4	20.8	17.0	14.8	9.18	7.80
1.83V	265	201	148	117	94.4	62.9	46.5	36.0	30.2	26.4	20.0	16.4	14.2	9.10	7.58
1.85V	226	182	136	108	91.8	62.1	44.8	34.7	29.4	25.5	19.3	16.0	13.7	9.01	7.36

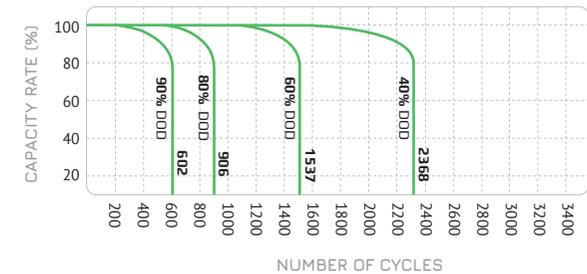
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL 25°C (77°F)

End Cell Voltage	5 min	15 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	757	510.3	349	266	185	134	94.8	76.3	64.9	57.0	43.1	35.1	29.4	18.2	15.3
1.67V	677	475	326	254	185	130	94.6	75.9	63.6	56.3	42.2	34.3	29.4	18.2	15.3
1.70V	655	463	318	252	184	127	92.2	75.4	62.7	56.0	42.1	34.0	29.4	18.2	15.3
1.75V	604	435	307	244	183	122	90.9	74.3	62.2	55.1	41.2	33.65	29.4	18.2	15.2
1.80V	548	401	297	236	183	118	90.1	72.9	61.4	54.3	40.5	33.3	28.5	18.1	15.2
1.83V	484	371	277	221	182	114	89.4	70.5	60.8	52.8	39.2	32.4	27.9	18.1	14.8
1.85V	420	342	257	206	182	109	88.6	68.0	60.1	51.2	37.8	31.6	27.2	17.9	14.5

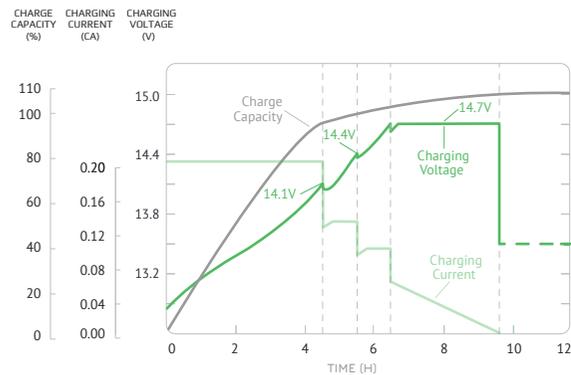
CYCLE LIFE CURVE GRAPH 25°C (77°F).



CYCLE LIFE CURVE GRAPH 40°C (104°F).



REGULAR CYCLE CHARGE CHARACTERISTICS 25°C (77°F).



TEMPERATURE & DISCHARGE CAPACITY.

