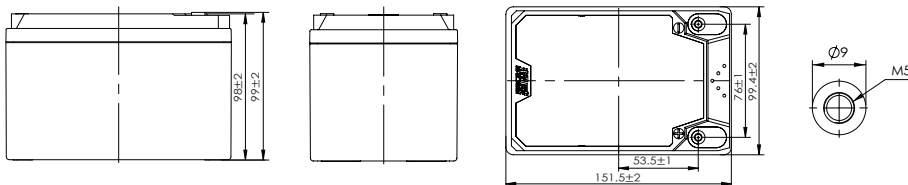


APPEARANCE & DRAWINGS



MECHANICAL SPECIFICATIONS

Model	CWP12-16	
Length	151 mm	5.94 inch
Width	99 mm	3.90 inch
Height	98 mm	3.86 inch
Total Height	99 mm	3.86 inch
Weight	4±3% kg	8.82±3% lbs
Terminal	M5, 9	
Container	ABS (UL94-V0 is optional)	

ELECTRICAL SPECIFICATIONS

Voltage	12 V
Capacity (C20)	16 Ah
Energy Sensity	48 Wh/Kg
Standard Charging Current	2 A
Maximum Discharging Current	23.4 A
Charge Temperature	-10° C ~ 45° C
Discharge Temperature	-20° C ~ 55° C
Storage Temperature	-15° C ~ 50° C

CONSTANT CURRENT DISCHARGING PARAMETERS (UNIT: A, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.68	15.14	10.93	6.313	4.479	3.349	2.950	2.434	1.870	1.544	0.794
1.80V/cell	19.14	15.42	11.13	6.407	4.540	3.483	2.977	2.460	1.884	1.553	0.802
1.75V/cell	19.54	15.72	11.31	6.477	4.591	3.509	2.996	2.476	1.892	1.560	0.804
1.70V/cell	19.88	15.94	11.45	6.548	4.622	3.527	3.011	2.488	1.899	1.565	0.805
1.65V/cell	20.05	16.06	11.53	6.595	4.648	3.541	3.020	2.494	1.904	1.568	0.806
1.60V/cell	20.19	16.11	11.57	6.622	4.666	3.551	3.025	2.498	1.907	1.569	0.807

CONSTANT POWER DISCHARGING PARAMETERS (UNIT: W, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	36.81	30.00	21.75	12.62	8.964	6.904	5.906	4.873	3.744	3.092	1.590
1.80V/cell	37.68	30.56	22.13	12.80	9.081	6.968	5.957	4.923	3.770	3.108	1.605
1.75V/cell	38.44	31.13	22.47	12.93	9.177	7.014	5.988	4.949	3.783	3.119	1.607
1.70V/cell	39.08	31.54	22.75	13.05	9.229	7.043	6.012	4.968	3.791	3.126	1.609
1.65V/cell	39.35	31.74	22.89	13.13	9.265	7.059	6.022	4.975	3.798	3.129	1.610
1.60V/cell	39.56	31.79	22.94	13.18	9.287	7.072	6.026	4.978	3.802	3.130	1.610

HOURLY CAPACITY

2-hour Capacity (1.75V/cell)	3-hour Capacity (1.75V/cell)	5-hour Capacity (1.75V/cell)	10-hour Capacity (1.80V/cell)	20-hour Capacity (1.80V/cell)
13Ah	13.8Ah	15Ah	15.5Ah	16Ah



PREMIUM Series

BENEFITS & FEATURES

AUTHENTIC GRAPHENE

450 Cycle Life: Cycle life can reach more than 450 times @ 100%DOD, 25°C;

>50Wh/kg: Top energy density with best capacity performance under the same weight and size;

Stronger in Large Current: the discharging time @36A current extended to 30min, compared with general 25min;

Better in Low-temp.: The capacity performance is much better at -10 °C with 90% remaining;

CERTIFIED QUALITY

All products are tested and certified to multiple standard.

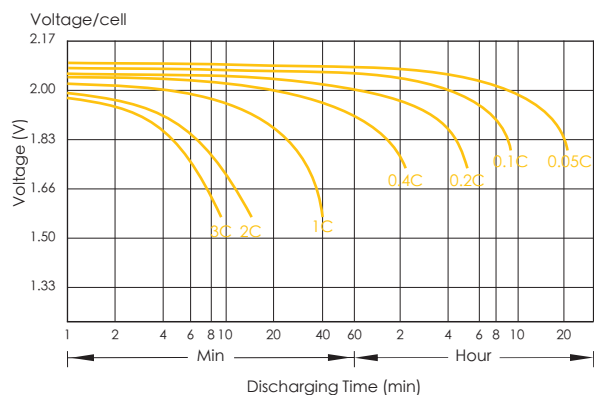
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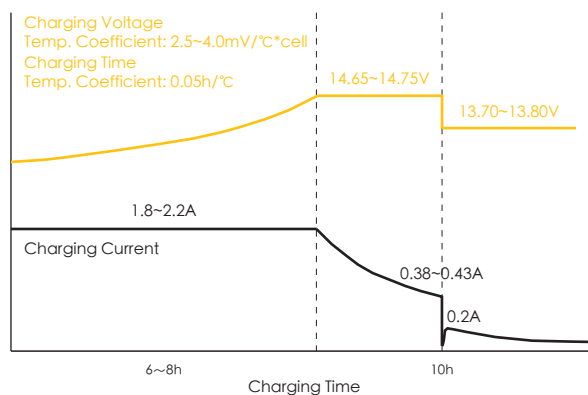
ISO 14001
DIN ISO 9001/QS9000



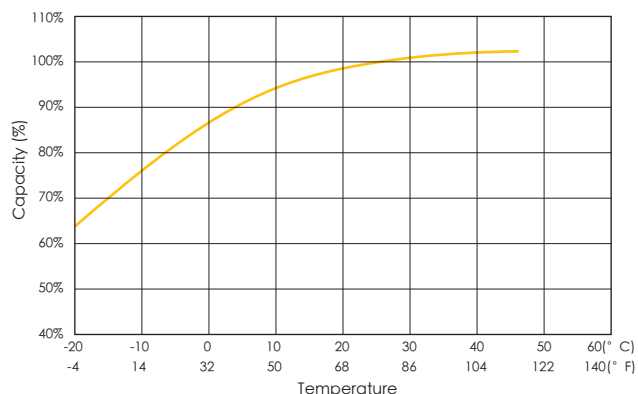
Discharging Characteristics (25° C/77° F)



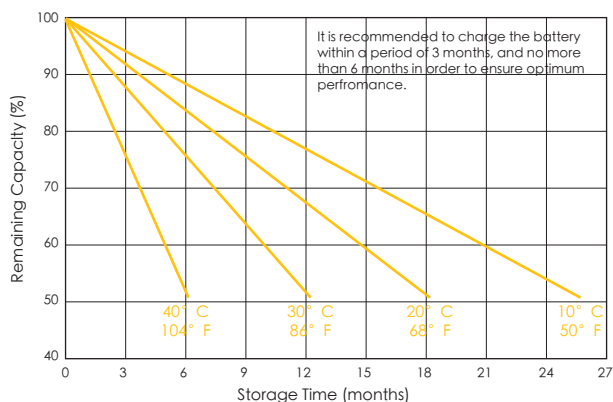
Charging Characteristics (25° C/77° F)



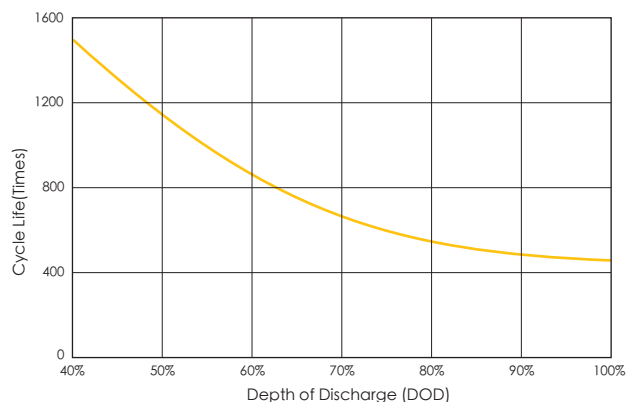
Capacity vs Temperature



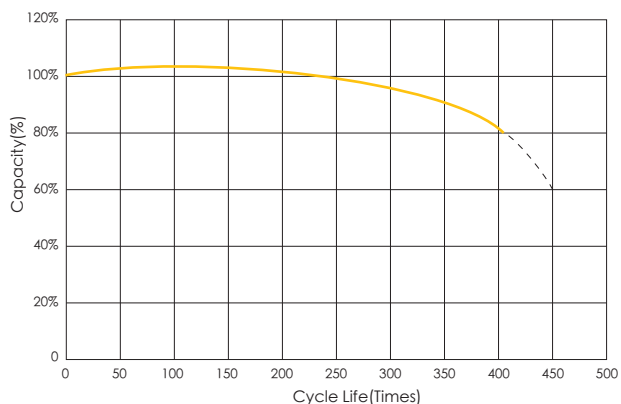
Self-discharge vs Time



Cycle Life vs Depth of Discharge (25° C/77° F)

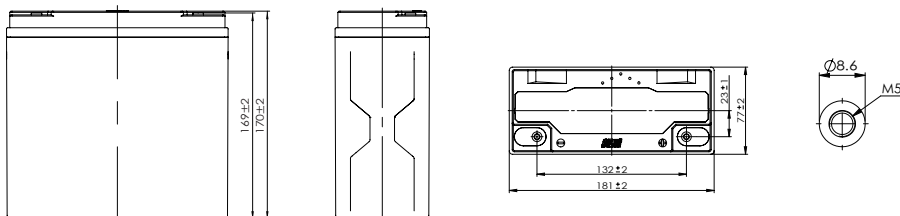


Cycle Life vs Remaining Capacity (25° C/77° F)



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APPEARANCE & DRAWINGS



MECHANICAL SPECIFICATIONS

Model	CWP12-28	
Length	181 mm	7.13 inch
Width	77 mm	3.03 inch
Height	169 mm	6.65 inch
Total Height	170 mm	6.69 inch
Weight	6.5±3% kg	14.33±3% lbs
Terminal	M5, 8.6	
Container	ABS (UL94-V0 is optional)	

ELECTRICAL SPECIFICATIONS

Voltage	12 V
Capacity (C20)	28 Ah
Energy Sensity	52 Wh/Kg
Standard Charging Current	4.0 A
Maximum Discharging Current	39.6 A
Charge Temperature	-10° C ~ 45° C
Discharge Temperature	-20° C ~ 55° C
Storage Temperature	-15° C ~ 50° C

CONSTANT CURRENT DISCHARGING PARAMETERS (UNIT: A, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	32.70	26.49	19.12	10.72	7.799	6.035	5.112	4.259	3.272	2.689	1.390
1.80V/cell	33.50	26.99	19.47	10.88	7.905	6.095	5.159	4.305	3.297	2.705	1.404
1.75V/cell	34.19	27.50	19.78	11.00	7.995	6.140	5.191	4.332	3.312	2.717	1.407
1.70V/cell	34.79	27.89	20.04	11.12	8.048	6.172	5.217	4.354	3.323	2.725	1.410
1.65V/cell	35.08	28.10	20.19	11.20	8.093	6.197	5.232	4.364	3.332	2.730	1.411
1.60V/cell	35.33	28.19	20.25	11.25	8.124	6.214	5.241	4.372	3.338	2.732	1.412

CONSTANT POWER DISCHARGING PARAMETERS (UNIT: W, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	64.41	52.50	38.06	21.43	15.61	12.08	10.23	8.528	6.551	5.383	2.783
1.80V/cell	65.94	53.48	38.73	21.74	15.81	12.19	10.32	8.616	6.598	5.411	2.809
1.75V/cell	67.27	54.47	39.33	21.96	15.98	12.27	10.38	8.661	6.620	5.431	2.813
1.70V/cell	68.39	55.20	39.81	22.17	16.07	12.33	10.42	8.694	6.635	5.443	2.816
1.65V/cell	68.87	55.54	40.06	22.31	16.13	12.35	10.43	8.706	6.647	5.449	2.817
1.60V/cell	69.23	55.63	40.15	22.38	16.17	12.38	10.44	8.712	6.653	5.450	2.818

HOURLY CAPACITY

2-hour Capacity (1.75V/cell)	3-hour Capacity (1.75V/cell)	5-hour Capacity (1.75V/cell)	10-hour Capacity (1.80V/cell)	20-hour Capacity (1.80V/cell)
22Ah	24Ah	26Ah	27Ah	28Ah



PREMIUM Series

BENEFITS & FEATURES

AUTHENTIC GRAPHENE

450 Cycle Life: Cycle life can reach more than 450 times @ 100%DOD, 25°C;

>50Wh/kg: Top energy density with best capacity performance under the same weight and size;

Stronger in Large Current: the discharging time @36A current extended to 30min, compared with general 25min;

Better in Low-temp.: The capacity performance is much better at -10 °C with 90% remaining;

CERTIFIED QUALITY

All products are tested and certified to multiple standard.

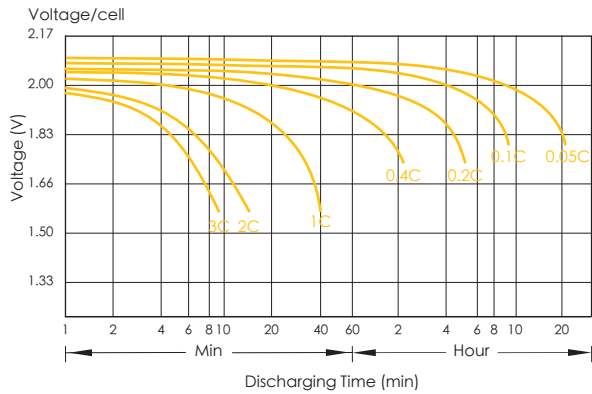
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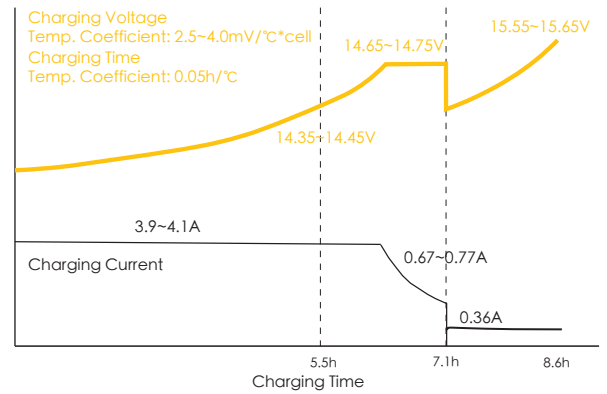
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DIN ISO 9001/QS9000



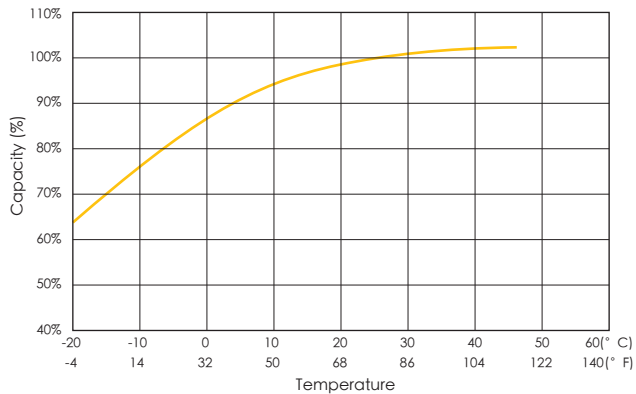
Discharging Characteristics (25° C/77° F)



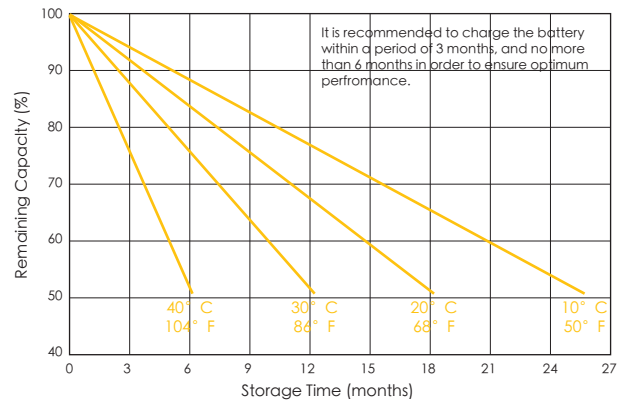
Charging Characteristics (25° C/77° F)



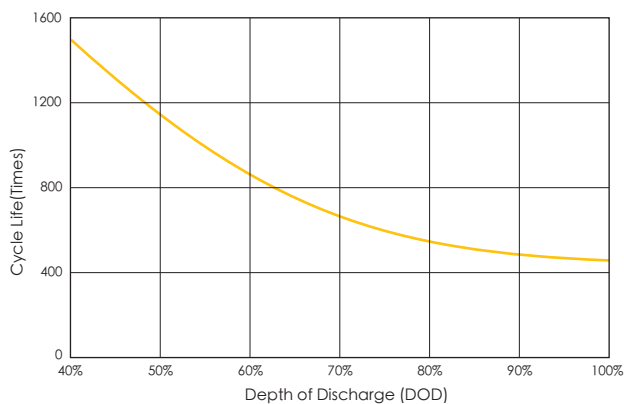
Capacity vs Temperature



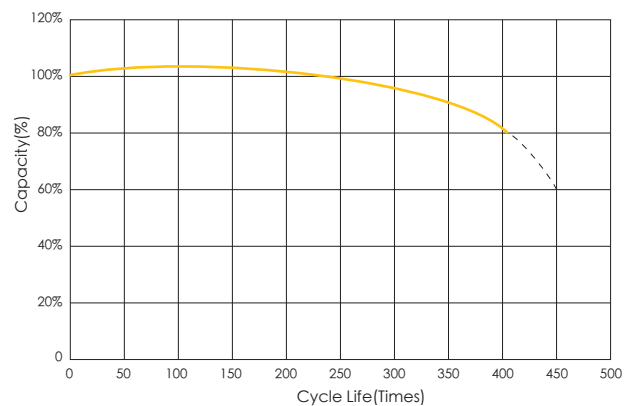
Self-discharge vs Time



Cycle Life vs Depth of Discharge (25° C/77° F)

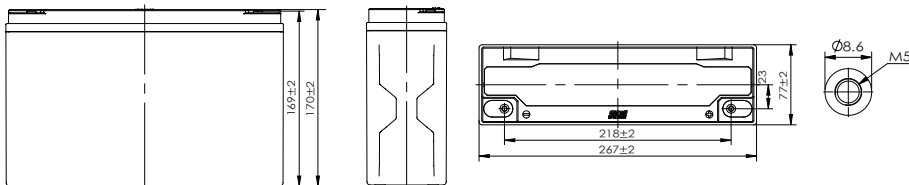


Cycle Life vs Remaining Capacity (25° C/77° F)



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APPEARANCE & DRAWINGS



MECHANICAL SPECIFICATIONS

Model	CWP12-41	
Length	267 mm	10.51 inch
Width	77 mm	3.03 inch
Height	169 mm	6.65 inch
Total Height	170 mm	6.69 inch
Weight	9.±3%7 kg	21.3±3%8 lbs
Terminal	M5, 8.6	
Container	ABS (UL94-V0 is optional)	

ELECTRICAL SPECIFICATIONS

Voltage	12 V
Capacity (C20)	41 Ah
Energy Sensity	51 Wh/Kg
Standard Charging Current	6 A
Maximum Discharging Current	35 A
Charge Temperature	-10° C ~ 45° C
Discharge Temperature	-20° C ~ 55° C
Storage Temperature	-15° C ~ 50° C

CONSTANT CURRENT DISCHARGING PARAMETERS (UNIT: A, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	47.88	38.78	28.00	15.49	11.39	8.838	7.522	6.237	4.791	3.958	2.035
1.80V/cell	49.05	39.52	28.51	15.73	11.55	8.925	7.592	6.304	4.827	3.980	2.055
1.75V/cell	50.06	40.27	28.97	15.90	11.68	8.991	7.639	6.344	4.849	3.998	2.060
1.70V/cell	50.95	40.84	29.34	16.07	11.76	9.037	7.678	6.376	4.866	4.011	2.064
1.65V/cell	51.37	41.14	29.56	16.19	11.82	9.074	7.700	6.390	4.879	4.018	2.066
1.60V/cell	51.74	41.27	29.65	16.25	11.87	9.100	7.713	6.401	4.888	4.021	2.068

CONSTANT POWER DISCHARGING PARAMETERS (UNIT: W, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	94.31	76.88	55.73	30.97	22.80	17.69	15.06	12.49	9.593	7.923	4.076
1.80V/cell	96.56	78.30	56.71	31.41	23.10	17.85	15.19	12.62	9.661	7.964	4.113
1.75V/cell	98.50	79.76	57.58	31.73	23.34	17.97	15.27	12.68	9.694	7.993	4.119
1.70V/cell	100.1	80.82	58.29	32.04	23.47	18.05	15.33	12.73	9.715	8.010	4.123
1.65V/cell	100.8	81.32	58.67	32.24	23.56	18.09	15.35	12.75	9.733	8.019	4.125
1.60V/cell	101.4	81.46	58.79	32.34	23.62	18.12	15.37	12.76	9.742	8.021	4.126

HOURLY CAPACITY

2-hour Capacity (1.75V/cell)	3-hour Capacity (1.75V/cell)	5-hour Capacity (1.75V/cell)	10-hour Capacity (1.80V/cell)	20-hour Capacity (1.80V/cell)
31.8Ah	36Ah	38.2Ah	39.8Ah	41.4Ah



PREMIUM Series

BENEFITS & FEATURES

AUTHENTIC GRAPHENE

450 Cycle Life: Cycle life can reach more than 450 times @ 100%DOD, 25°C;

>50Wh/kg: Top energy density with best capacity performance under the same weight and size;

Stronger in Large Current: the discharging time @36A current extended to 30min, compared with general 25min;

Better in Low-temp.: The capacity performance is much better at -10 °C with 90% remaining;

CERTIFIED QUALITY

All products are tested and certified to multiple standard.

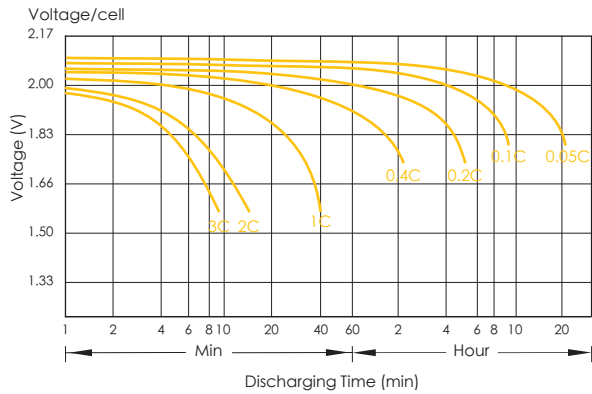
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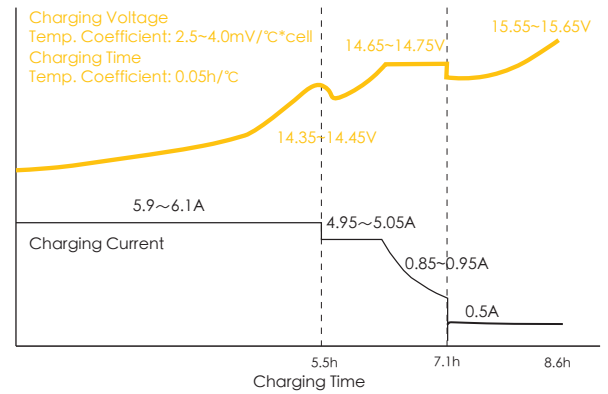
ISO 14001
DIN ISO 9001/QS9000



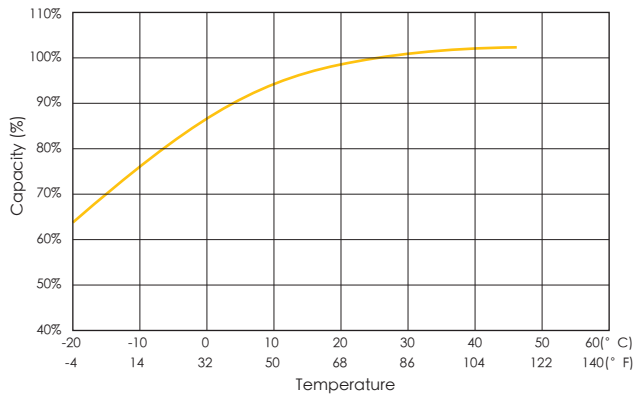
Discharging Characteristics (25° C/77° F)



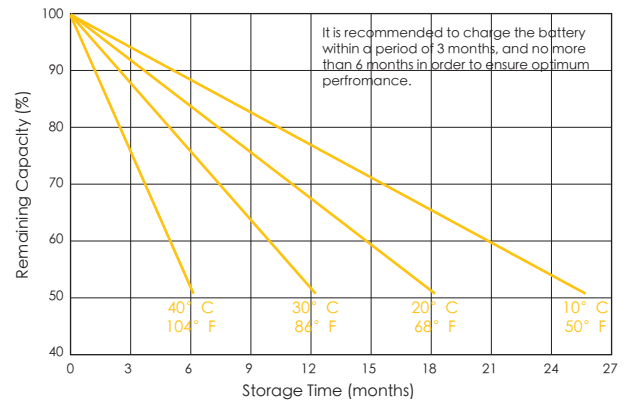
Charging Characteristics (25° C/77° F)



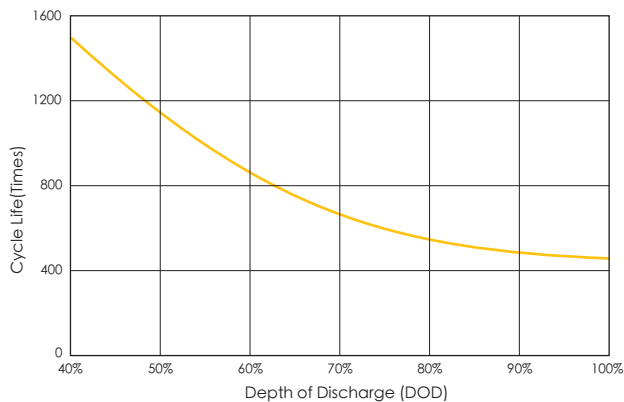
Capacity vs Temperature



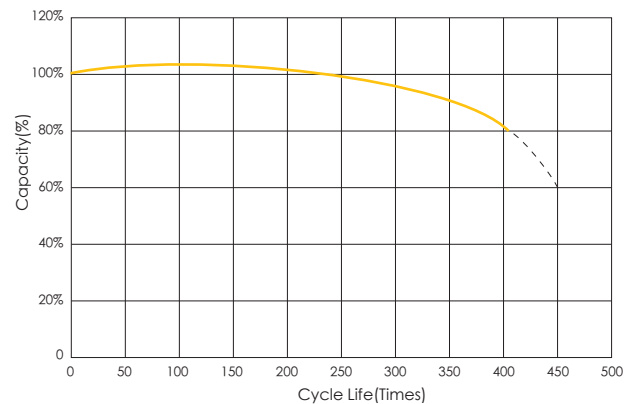
Self-discharge vs Time



Cycle Life vs Depth of Discharge (25° C/77° F)

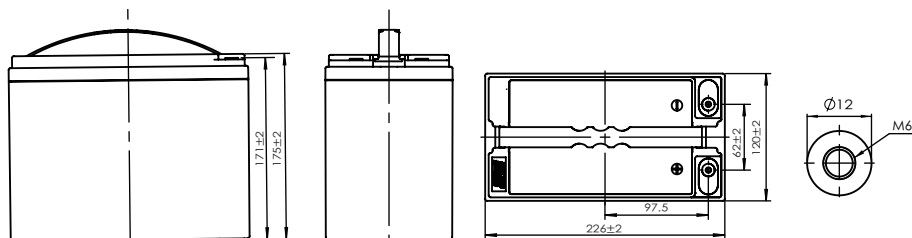


Cycle Life vs Remaining Capacity (25° C/77° F)



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APPEARANCE & DRAWINGS



MECHANICAL SPECIFICATIONS

Model	CWP12-55	
Length	226 mm	8.90 inch
Width	120 mm	4.72 inch
Height	171 mm	6.73 inch
Total Height	175 mm	6.89 inch
Weight	12.9±3% kg	28.44±3% lbs
Terminal	M6,12	
Container	ABS (UL94-V0 is optional)	

ELECTRICAL SPECIFICATIONS

Voltage	12 V
Capacity (C20)	55 Ah
Energy Sensity	51.1 Wh/Kg
Standard Charging Current	5.75 A
Maximum Discharging Current	47 A
Charge Temperature	-10° C ~ 45° C
Discharge Temperature	-20° C ~ 55° C
Storage Temperature	-15° C ~ 50° C

CONSTANT CURRENT DISCHARGING PARAMETERS (UNIT: A, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	64.88	52.55	37.95	21.27	15.40	12.22	10.09	8.538	6.558	5.336	2.730
1.80V/cell	66.46	53.55	38.63	21.59	15.61	12.34	10.18	8.630	6.608	5.366	2.757
1.75V/cell	67.84	54.57	39.26	21.83	15.78	12.43	10.25	8.684	6.638	5.390	2.764
1.70V/cell	69.04	55.33	39.76	22.07	15.89	12.50	10.30	8.727	6.661	5.408	2.769
1.65V/cell	69.61	55.75	40.05	22.22	15.98	12.55	10.33	8.747	6.678	5.417	2.771
1.60V/cell	70.11	55.92	40.18	22.32	16.04	12.58	10.35	8.762	6.691	5.421	2.774

CONSTANT POWER DISCHARGING PARAMETERS (UNIT: W, 25° C/77° F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	127.8	104.2	75.51	42.87	30.81	24.47	20.20	17.09	13.13	10.68	5.467
1.80V/cell	130.8	106.1	76.84	43.13	31.22	24.69	20.38	17.27	13.22	10.74	5.517
1.75V/cell	133.5	108.1	78.03	43.57	31.54	24.86	20.48	17.36	13.27	10.78	5.525
1.70V/cell	135.7	109.5	78.98	43.99	31.72	24.96	20.56	17.43	13.30	10.80	5.531
1.65V/cell	136.6	110.2	79.49	44.26	31.85	25.02	20.60	17.45	13.32	10.81	5.534
1.60V/cell	137.4	110.4	79.66	44.40	31.92	25.06	20.61	17.46	13.34	10.81	5.535

HOURLY CAPACITY

2-hour Capacity (1.75V/cell)	3-hour Capacity (1.75V/cell)	5-hour Capacity (1.75V/cell)	10-hour Capacity (1.80V/cell)	20-hour Capacity (1.80V/cell)
44Ah	47Ah	50Ah	52Ah	55Ah



PREMIUM Series

BENEFITS & FEATURES

AUTHENTIC GRAPHENE

450 Cycle Life: Cycle life can reach more than 450 times @ 100%DOD, 25°C;

>50Wh/kg: Top energy density with best capacity performance under the same weight and size;

Stronger in Large Current : the discharging time @36A current extended to 30min, compared with general 25min;

Better in Low-temp. : The capacity performance is much better at -10 °C with 90% remaining;

CERTIFIED QUALITY

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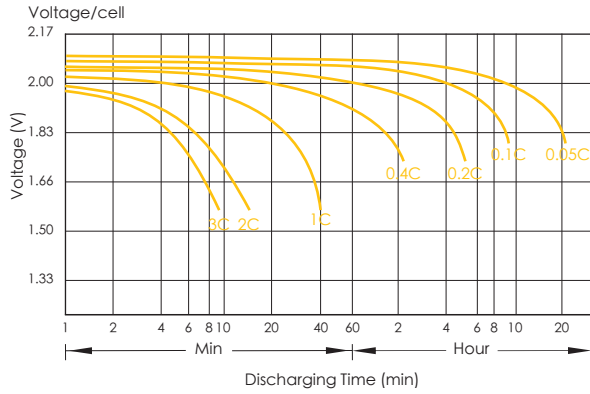
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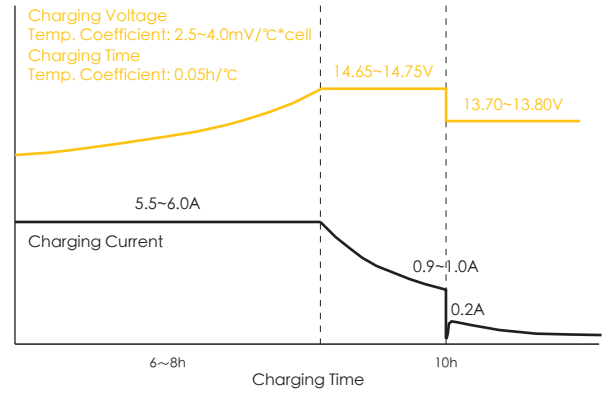
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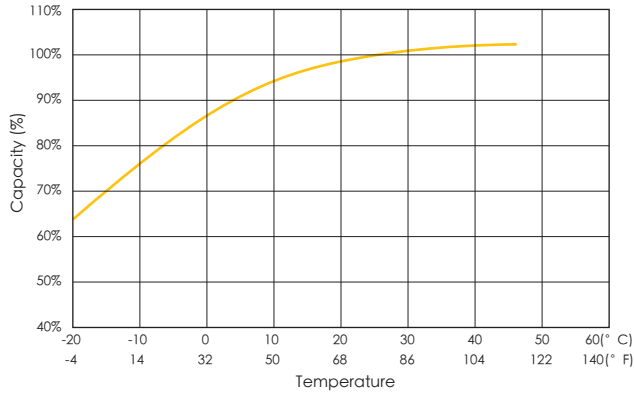
Discharging Characteristics (25° C/77° F)



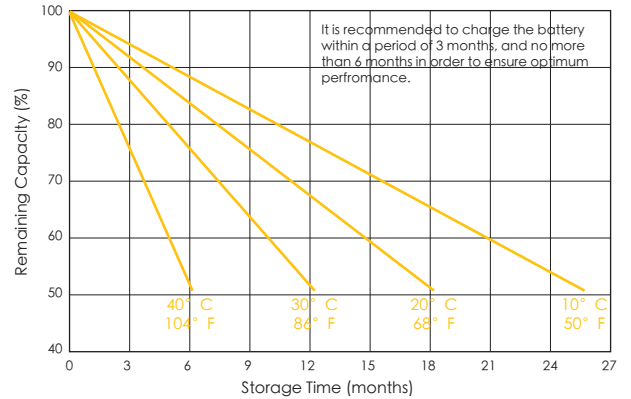
Charging Characteristics (25° C/77° F)



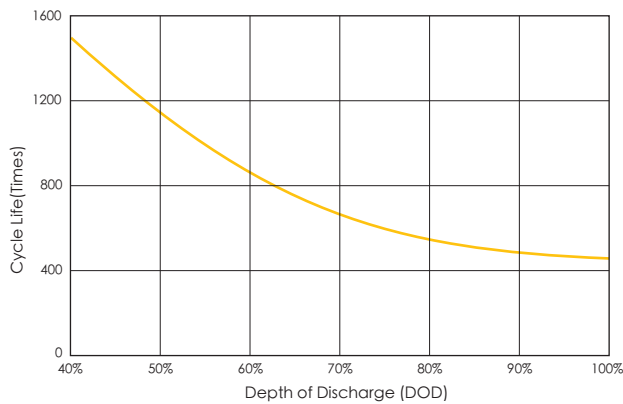
Capacity vs Temperature



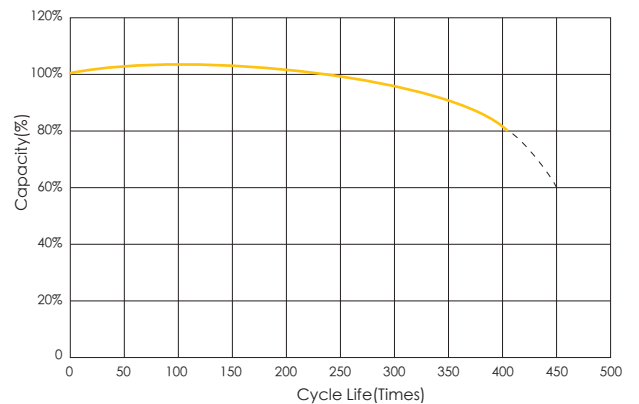
Self-discharge vs Time



Cycle Life vs Depth of Discharge (25° C/77° F)



Cycle Life vs Remaining Capacity (25° C/77° F)



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