

*Power You Can
Depend On*



LBTY 2V Series

Valve Regulated Lead Acid

— *Wider Range & Higher Capacity*



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LBTY 2V Series

LBTY 2V series

Valve Regulated Lead Acid Battery For Standby Power Applications



Applications

- Telecom control system
- Uninterrupted Power Supply (UPS)
- Metro and assistant system
- Marine equipment
- Electric power systems
- Power plant
- Hospital and medical equipment
- Fire alarm applications
- Alarm and safety system

Features

- Design life:15 years
- High quality design insurance
- Pb-Ca Alloy for positive plate grid
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- Lower self-discharge rate (about 3% per month @25°C)
- UL-recognized component
- Flame retardant container materials,complied with materials UL94 V-0
- Not restricted for air transport-Complies with IATA/ICAO Special Provisions A67
- Not restricted for surface transport - Classified as non-hazardous material as related to DOT-CFR 49 Title 49 parts 171-189
- Not restricted for water transport - Classified as non-hazardous material per IMDG Amendment 27
- Manufactured in accordance with ISO 9001, ISO 14001, and ISO 45001
- Designed to be compliant with international standard IEC 60896-21/22

Specifications

Model	V	Capacity/Ah (C10,1.80V@25°C)	Dimensions (mm)				Weight / Kg	Terminal Type(Bolt)	Resistance/ mΩ
			L	W	H	TH			
C&D2-200LBT	2	200	170	106	330	345	12.4	Insert(M10)	0.74
C&D2-300LBT	2	300	170	150	330	345	17.8	Insert(M10)	0.56
C&D2-400LBT	2	400	196	171	330	345	23.6	Insert(M10)	0.48
C&D2-500LBT	2	500	241	171	330	345	29.8	Insert(M10)	0.38
C&D2-600LBT	2	600	286	171	330	345	35.6	Insert(M10)	0.37
C&D2-800LBT	2	800	383	171	330	345	47.7	Insert(M10)	0.34
C&D2-1000LBT	2	1000	471	171	330	345	59.5	Insert(M10)	0.30
C&D2-1200N LBT	2	1200	471	171	330	345	72.0	Insert(M10)	0.29
C&D2-1500N LBT	2	1500	336	288	330	345	86.5	Insert(M10)	0.28
C&D2-2000LBT	2	2000	476	337	330	345	119.0	Insert(M10)	0.26
C&D2-2500N LBT	2	2500	476	337	330	345	143.0	Insert(M10)	0.24
C&D2-3000LBT	2	3000	590	362	383	383	176.0	Insert(M8)	0.20

*Batteries to be mounted with 15mm spacing minimum and free air ventilation.

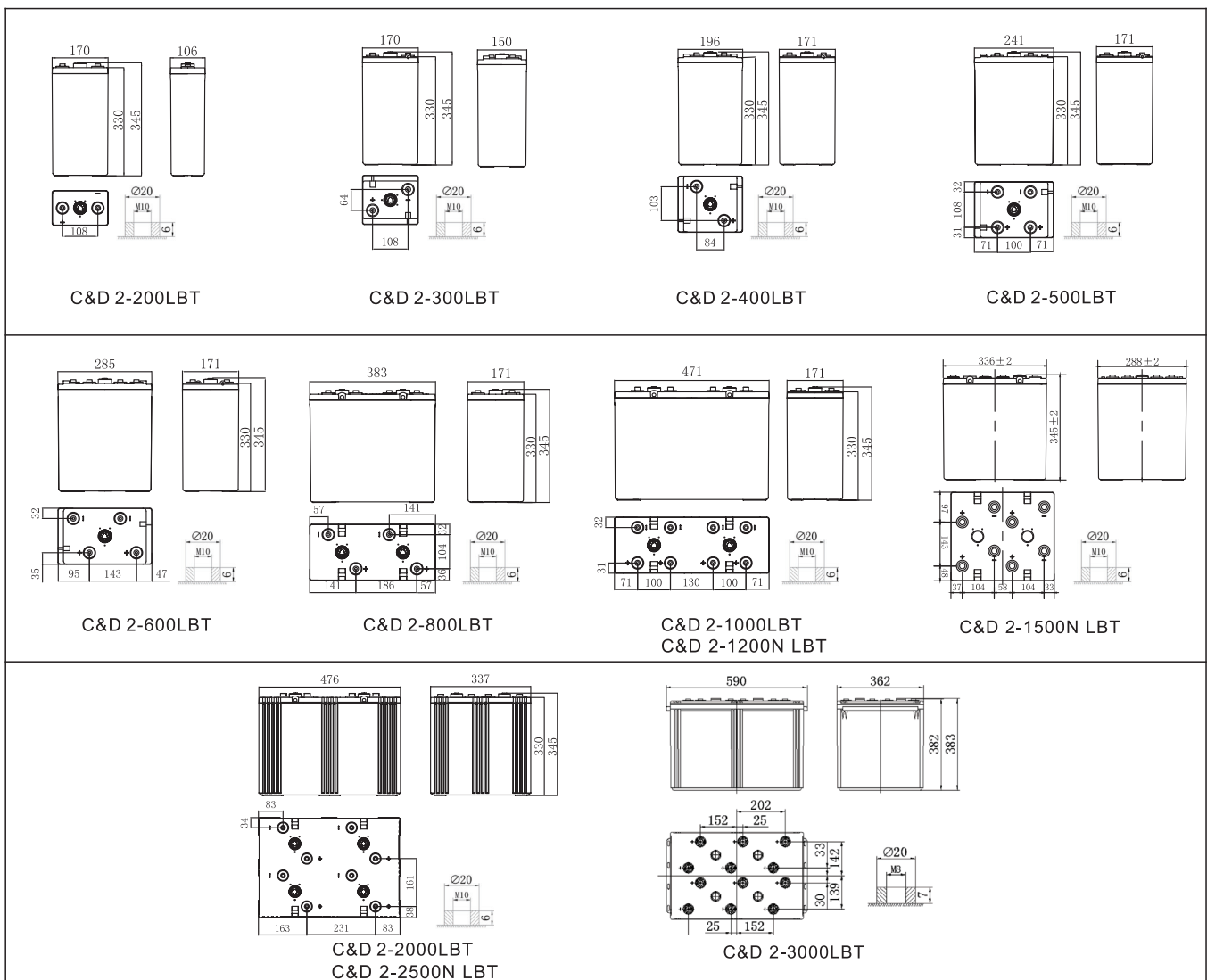
All dimensions are for reference only. Specifications subject to change without notification.

The design life listed indicates the service life under ideal service conditions. Changes in service conditions do not affect the design life, but the actual service life may be shorter than the design life.

Specifications

Operating Temperature Range with Temperature Compensation	Discharge: -40°C to 50°C Charge: -20°C to 50°C Storage: -20°C to 40°C
Nominal Operating Temperature Range	25°C±2°C
Float Charging Voltage	2.23 to 2.27V per cell average at 25°C
Equalization and Cycle Service Charging Voltage	2.35 to 2.4V per cell average at 25°C
Self Discharge	Battery may be stored for up to 4 months at 25°C, and self-discharge ratio less than 3% per month at 25°C. Please charge the batteries before using.
Accessories (optional)	Inter unit connectors, racks and cabinet systems are available
Terminal	Thread inserted terminal to accept M10 bolt
Container materials	ABS(UL 94 V-0)

Product Dimensions



LBTY 2V Series

C&D 2-200 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	308	219	171	126	83.0	58.0	45.0	37.0	20.8
1.65V	302	215	168	124	82.0	56.8	43.3	35.6	20.7
1.70V	291	209	163	122	80.0	55.2	42.0	34.5	20.6
1.75V	275	200	155	118	77.0	53.6	41.2	33.5	20.5
1.80V	254	188	145	113	73.0	52.5	40.4	32.9	20.3

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	572	411	306	246	157.0	108.0	86.0	73.0	41.6
1.65V	561	403	300	243	155.0	105.9	82.6	70.2	41.4
1.70V	543	390	291	239	152.0	102.3	80.3	68.1	41.2
1.75V	515	369	277	232	147.0	99.8	81.0	66.8	40.7
1.80V	480	344	260	224	141.0	97.9	77.1	55.5	40.2

C&D 2-300 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	457	328	258	192	130.0	84.3	67.0	57.4	31.1
1.65V	448	323	253	184	125.0	82.5	64.4	55.2	30.9
1.70V	432	314	245	179	121.3	78.7	62.5	53.4	30.8
1.75V	409	300	233	174	117.8	76.4	60.7	52.0	30.7
1.80V	380	283	217	170	115.5	74.9	59.5	51.7	30.5

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	863	615	462	318	235.0	139.0	130.0	97.6	63.7
1.65V	846	603	453	304	226.0	133.5	125.0	91.0	62.4
1.70V	819	584	439	296	217.3	129.8	121.4	88.4	60.4
1.75V	777	555	418	287	210.9	126.7	117.8	85.8	59.3
1.80V	724	518	391	282	206.8	123.6	115.5	84.5	58.1

C&D 2-400 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	603	429	338	249	171.1	111.6	86.6	73.9	44.9
1.65V	591	422	332	246	168.5	107.7	86.3	73.4	43.8
1.70V	570	410	321	241	163.2	104.5	85.8	72.5	42.7
1.75V	539	392	305	233	155.3	101.2	85.1	71.2	41.8
1.80V	500	369	285	223	145.2	100.2	84.2	69.5	40.4

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	1130	802	599	462	310.2	205.6	170.0	138.8	75.6
1.65V	1110	788	588	457	306.5	200.6	168.3	134.2	72.6
1.70V	1077	764	571	449	300.3	194.6	165.5	129.8	70.6
1.75V	1026	728	544	437	291.2	189.6	161.3	127.7	67.7
1.80V	963	683	511	421	279.3	185.4	156.0	126.9	66.6

C&D 2-500 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	765	541	424	318	214.0	169.0	132.5	97.9	55.0
1.65V	752	536	410	314	205.8	162.5	127.4	94.1	53.5
1.70V	726	520	400	310	199.8	157.8	123.7	91.4	52.3
1.75V	687	489	380	299	193.9	153.2	120.1	88.7	51.7
1.80V	638	470	360	280	190.1	150.2	117.7	87.0	51.2

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	1430	1011	747	572	386.0	280.0	212.0	161.5	97.8
1.65V	1404	992	736	550	371.0	269.2	203.8	155.3	95.5
1.70V	1360	960	712	534	360.3	261.3	197.9	150.8	92.1
1.75V	1294	912	679	519	349.8	253.8	192.1	146.4	91.4
1.80V	1210	852	642	508	343.0	248.8	188.4	143.6	89.6

C&D 2-600 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	915	658	492	392	231.7	177.6	132.0	117.0	62.9
1.65V	897	645	485	385	222.8	170.8	126.9	111.2	62.2
1.70V	866	623	474	373	216.3	165.8	123.2	108.0	61.7
1.75V	820	591	458	355	210.0	161.0	119.6	106.1	61.3
1.80V	761	550	437	332	205.8	157.8	117.3	104.0	60.4

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	1710	1204	832	664	386.2	335	254.0	215.0	123.0
1.65V	1679	1182	822	654	371.3	331	244.2	213.0	122.5
1.70V	1627	1144	805	638	360.5	325	237.1	212.0	121.7
1.75V	1550	1088	780	613	350.0	316	230.2	209.0	120.5
1.80V	1452	1017	748	582	343.2	305	225.7	206.0	119.0

C&D 2-800 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	1208	855	674	490	326.5	235.0	187.5	156.0	80.9
1.65V	1184	841	661	485	313.6	226.0	179.9	153.0	80.8
1.70V	1143	817	640	478	304.2	219.4	175.1	150.0	80.7
1.75V	1082	782	609	466	295.0	213.0	170.0	144.0	80.5
1.80V	1004	737	569	452	289.0	208.8	166.7	138.0	80.3

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	2244	1580	1180	934	600.0	423.0	335.0	284.0	168.0
1.65V	2202	1550	1159	916	576.5	406.7	331.0	282.0	166.9
1.70V	2133	1500	1124	886	559.4	394.9	326.0	280.0	165.1
1.75V	2028	1425	1072	840	542.9	383.4	318.0	276.0	162.4
1.80V	1896	1330	1006	783	532.0	375.9	308.0	272.0	159.0

C&D 2-1000 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	1510.0	1062.0	840.0	620.0	428.2	283.2	214.1	182.0	107.3
1.65V	1479.0	1031.0	818.0	605.0	406.4	279.0	211.0	180.0	106.2
1.70V	1427.0	1018.0	792.0	610.0	395.0	274.1	207.3	179.0	105.2
1.75V	1350.0	976.0	753.0	595.0	379.3	266.0	202.0	176.0	104.3
1.80V	1252.0	923.0	718.0	560.0	358.2	257.3	195.3	173.0	102.2

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	2832.0	1995.0	1479.0	1198.0	764.0	554.1	420.2	356.0	204.5
1.65V	2779.0	1957.0	1453.0	1177.0	755.2	548.0	415.0	354.1	203.4
1.70V	2690.0	1894.0	1409.0	1142.0	740.2	538.3	409.2	351.0	201.5
1.75V	2557.0	1800.0	1344.0	1090.0	718.1	523.2	398.0	346.1	199.3
1.80V	2389.0	1680.0	1261.0	1023.0	689.0	505.0	386.1	341.2	196.2

C&D 2-1200N LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	1870	1324	1028	746	512.0	341.1	252.2	221.1	122.5
1.65V	1813	1292	983	736	490.2	323.2	247.1	213.2	122.0
1.70V	1756	1241	950	726	478.3	318.0	243.1	211.0	121.5
1.75V	1631	1167	902	702	461.0	316.3	237.0	208.3	121.0
1.80V	1542	1125	858	670	436.4	310.0	227.4	203.3	120.5

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	3493	2475	1811	1291	931.1	672.1	501.0	423.2	235.5
1.65V	3396	2406	1772	1269	924.2	667.0	495.2	412.1	232.4
1.70V	3322	2329	1710	1257	914.0	641.2	484.3	408.1	230.3
1.75V	3135	2225	1637	1226	875.3	609.3	469.0	405.2	228.2
1.80V	2922	2054	1532	1134	840.4	598.4	460.4	398.3	226.3

LBTY 2V Series

C&D 2-1500N LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	2320	1647	1284	945	649.1	428.2	323.1	275.1	155.8
1.65V	2290	1619	1241	930	622.2	422.1	317.2	271.0	155.5
1.70V	2200	1555	1198	915	607.0	419.0	311.0	270.2	155.1
1.75V	2046	1462	1137	887	585.3	404.3	302.3	265.0	154.4
1.80V	1923	1416	1082	848	552.4	389.0	295.4	259.4	153.5

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	4371	3078	2277	1625	1177.0	837.1	634.1	538.0	310.2
1.65V	4297	3017	2244	1616	1168.2	831.2	628.2	535.2	308.4
1.70V	4156	2934	2165	1601	1155.3	822.0	613.0	532.3	306.6
1.75V	3925	2804	2073	1524	1104.0	795.3	595.3	526.2	304.5
1.80V	3659	2592	1942	1448	1061.1	762.4	583.2	514.0	302.2

C&D 2-2000 LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	3004	2132	1587	1228	843.2	566.0	428.1	365.0	206.0
1.65V	2943	2096	1566	1213	828.1	559.9	424.1	362.1	205.6
1.70V	2842	2036	1532	1187	803.1	549.7	418.0	358.3	204.8
1.75V	2690	1946	1481	1149	765.3	534.4	408.3	351.1	203.8
1.80V	2498	1832	1416	1101	717.0	515.4	397.4	343.4	202.4

Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	5504	3960	2958	2274	1529.1	933.9	816.2	695.7	408.1
1.65V	5292	3885	2906	2235	1511.2	924.6	808.1	688.8	406.2
1.70V	5088	3760	2819	2169	1481.0	915.4	800.1	682.0	403.2
1.75V	4893	3572	2688	2071	1435.2	906.4	792.1	675.3	398.7
1.80V	4704	3334	2523	1947	1378.4	888.6	784.3	668.6	393.3

C&D 2-2500N LBT

Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	3867	2745	2140	1575	1082.0	713.1	538.0	458.0	258.4
1.65V	3817	2698	2068	1550	1037.2	703.1	528.2	452.3	258.0
1.70V	3667	2592	1997	1525	1012.1	698.2	518.0	450.2	257.5
1.75V	3410	2437	1895	1478	975.3	673.3	503.3	442.1	256.7
1.80V	3205	2360	1803	1413	920.0	648.0	492.1	432.2	255.0

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	6380	4589	3531	2678	1806.0	1213.0	915.0	793.0	470.3
1.65V	6336	4557	3516	2620	1783.1	1196.2	898.2	781.2	469.2
1.70V	6307	4535	3494	2593	1770.2	1187.3	881.1	779.2	467.2
1.75V	6138	4386	3411	2572	1755.3	1178.1	871.2	764.1	465.0
1.80V	5929	4366	3336	2544	1711.1	1167.0	860.2	757.3	461.2

C&D 2-3000 LBT

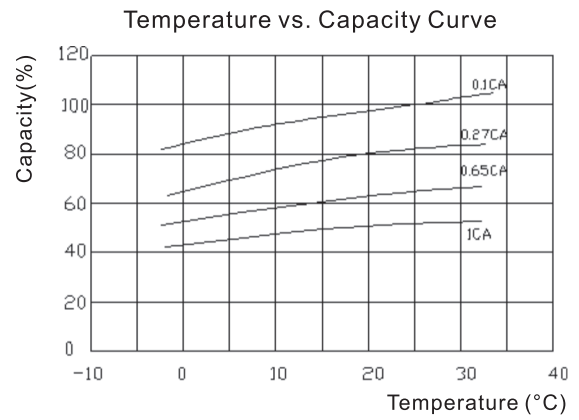
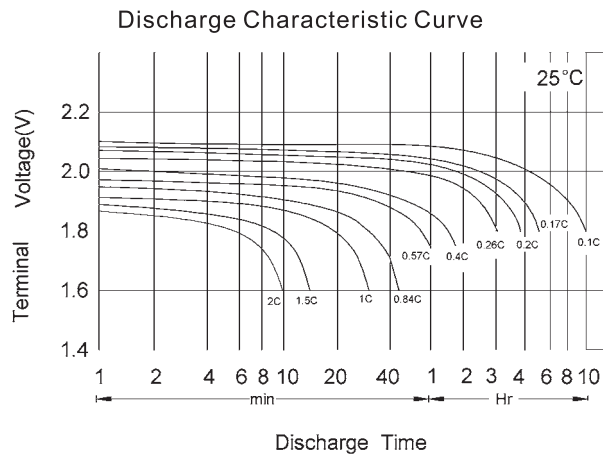
Constant Current Discharge Table - Amps @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	3292	2484	1926	1750	1068	795	632	531	309
1.65V	3260	2456	1906	1732	1058	791	628	529	308
1.70V	3212	2400	1865	1698	1037	785	622	526	307
1.75V	3120	2320	1806	1650	1007	771	612	519	304
1.80V	3000	2218	1711	1541	970	750	593	510	300

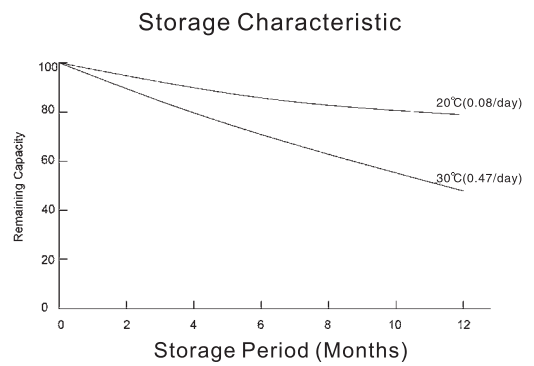
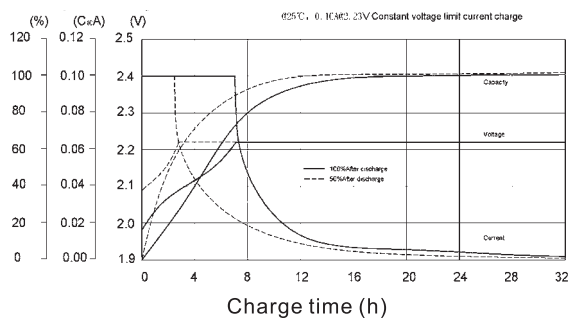
Constant Power Discharge Table - Watts Per Unit @ 25°C (77°F)

EPV	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	5980	4772	3476	3202	1976	1557	1181	1052	615
1.65V	5920	4732	3440	3174	1957	1550	1169	1049	614
1.70V	5768	4578	3374	3118	1918	1501	1146	1044	613
1.75V	5660	4430	3276	3037	1863	1499	1113	1032	608
1.80V	5518	4240	3192	2840	1799	1439	1069	1016	601

Battery Performance Curve



Charge characteristic Curve for Standby Use



*All data shall be changed without prior notice, C&D reserves the right to explain and update the information contained hereinto.

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C&D reserves the right to revise the data and information provided in this catalogue.