

*Power You Can
Depend On*

C&D TECHNOLOGIES
Power Solutions

LBTY 2V Series

Valve Regulated Lead Acid

— Wider Range & Higher Capacity



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 (25°C)
- 3 years warranty
- 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 @20°C)
- UL-recognized component
- Flame retardant container materials,
- complied with materials UL 94 HB, UL 94 V-0 Optional
- 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

Specifications

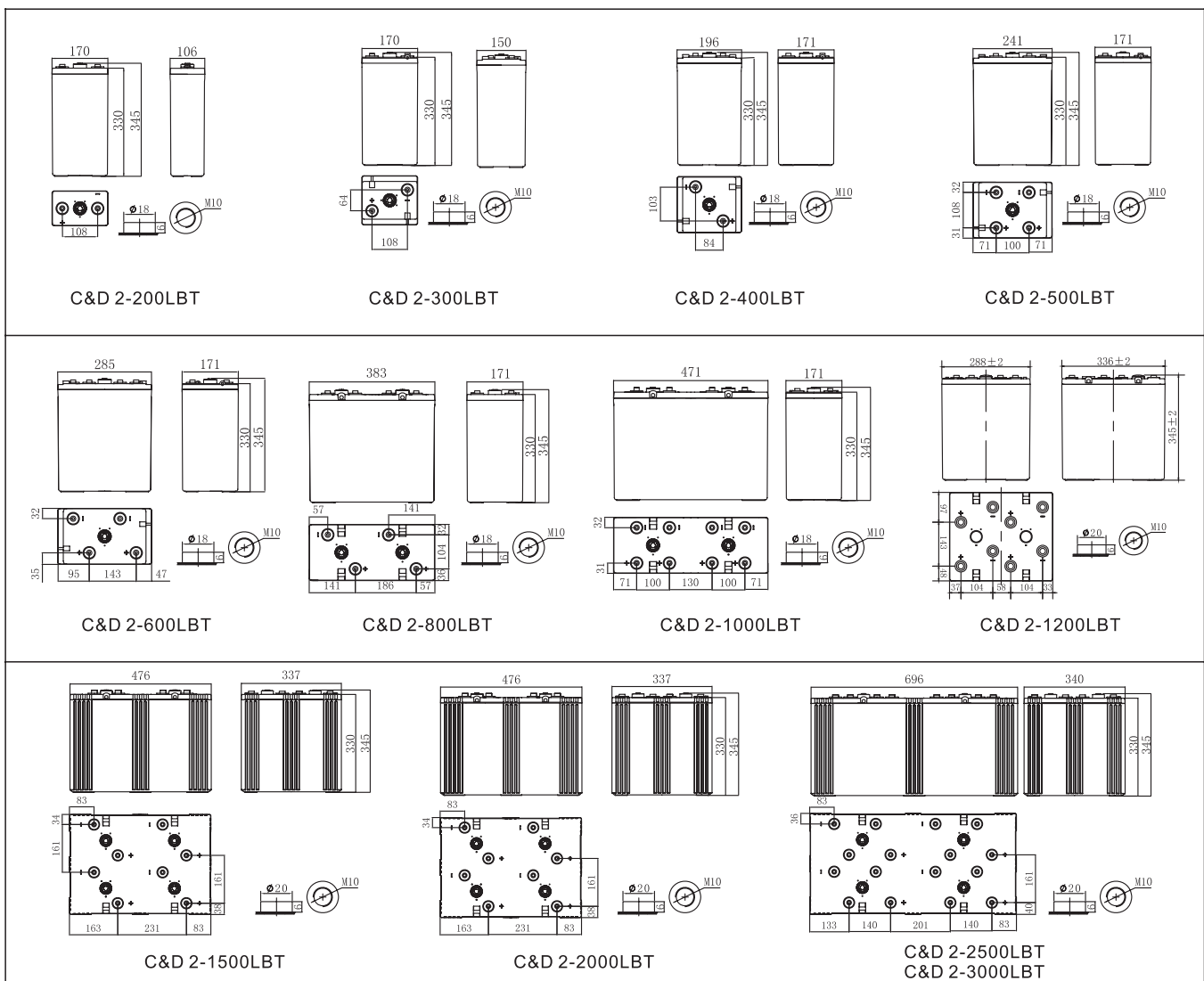
Model	V	Capacity/Ah (C10, 1.80V@25°C)	Dimensions (mm)				Weight / Kg	Terminal Type(Bolt)	Resistance/ mΩ
			L	W	H	TH			
C&D 2-200LBT	2	200	170	106	330	345	12.4	Insert (M10)	0.54
C&D 2-300LBT	2	300	170	150	330	345	17.8	Insert (M10)	0.46
C&D 2-400LBT	2	400	196	171	330	345	23.6	Insert (M10)	0.40
C&D 2-500LBT	2	500	241	171	330	345	29.3	Insert (M10)	0.35
C&D 2-600LBT	2	600	285	171	330	345	35.2	Insert (M10)	0.31
C&D 2-800LBT	2	800	383	171	330	345	47.1	Insert (M10)	0.24
C&D 2-1000LBT	2	1000	471	171	330	345	58.8	Insert (M10)	0.21
C&D 2-1200LBT	2	1200	336	288	330	345	71.0	Insert (M10)	0.20
C&D 2-1500LBT	2	1500	476	337	330	345	92.0	Insert (M10)	0.18
C&D 2-2000LBT	2	2000	476	337	330	345	117.0	Insert (M10)	0.16
C&D 2-2500LBT	2	2500	696	340	330	345	161.0	Insert (M10)	0.15
C&D 2-3000LBT	2	3000	696	340	330	345	185.0	Insert (M10)	0.13

*All dimensions in mm. All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

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	20°C±5°C
Float Charging Voltage	2.23 to 2.27V per cell average at 25°C
Equalization and Cycle Service Charging Voltage	2.30 to 2.35 V 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 HB, UL 94 V-0 optional)

Product Dimensions



LBTY 2V Series

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

1.85 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	494	416	319	241	183	132	96.1	73.2	65.1	45.8	39.4
C&D 2-300LBT	744	626	478	361	274	198	144	110	97.5	68.6	59.1
C&D 2-400LBT	993	836	637	481	365	264	192	146	130	91.4	78.7
C&D 2-500LBT	1248	1050	794	600	455	329	239	182	162	114	98.1
C&D 2-600LBT	1493	1256	950	718	544	393	286	218	194	136	117
C&D 2-800LBT	1972	1659	1255	948	719	520	378	288	256	180	155
C&D 2-1000LBT	2471	2079	1572	1188	901	651	473	194	321	226	360
C&D 2-1200LBT	2945	2478	1874	1416	1074	776	564	430	382	269	232
C&D 2-1500LBT	3694	3108	2350	1776	1347	974	707	539	480	337	290
C&D 2-2000LBT	4942	4158	3144	2376	1802	1303	946	721	642	451	388
C&D 2-2500LBT	6198	5214	3943	2980	2260	1634	1187	904	804	566	487
C&D 2-3000LBT	7438	6258	4732	3576	2712	1961	1424	1085	966	679	585

1.80 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	569	481	348	280	212	140	103	78.4	69.9	46.6	40.6
C&D 2-300LBT	857	724	521	420	318	209	154	117	105	69.8	60.8
C&D 2-400LBT	1145	967	694	559	423	279	205	156	140	93.0	81.0
C&D 2-500LBT	1438	1215	865	697	528	348	255	195	174	116	101
C&D 2-600LBT	1720	1453	1035	834	631	416	305	233	208	139	121
C&D 2-800LBT	2272	1920	1367	1101	834	550	403	308	275	183	160
C&D 2-1000LBT	2847	2406	1713	1380	1045	689	505	386	345	230	200
C&D 2-1200LBT	3394	2867	2041	1645	1246	821	602	460	411	274	238
C&D 2-1500LBT	4256	3596	2560	2063	1563	1030	755	577	515	343	299
C&D 2-2000LBT	5694	4811	3425	2760	2091	1378	1010	772	689	459	400
C&D 2-2500LBT	7141	6034	4296	3462	2622	1728	1267	968	864	576	502
C&D 2-3000LBT	8570	7241	5155	4154	3147	2074	1520	1162	1037	691	602

1.75 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	598	501	370	299	228	146	107	80.0	70.8	47.8	41.3
C&D 2-300LBT	899	754	554	447	342	218	160	120	106	71.6	61.9
C&D 2-400LBT	1201	1007	738	596	456	290	213	160	141	95.0	82.4
C&D 2-500LBT	1509	1265	920	743	568	362	266	199	176	119	103
C&D 2-600LBT	1805	1513	1100	889	679	433	318	238	210	142	123
C&D 2-800LBT	2384	1999	1454	1174	897	572	420	314	278	188	162
C&D 2-1000LBT	2988	2505	1822	1471	1125	717	527	394	348	236	204
C&D 2-1200LBT	3561	2985	2171	1753	1340	854	628	470	415	281	243
C&D 2-1500LBT	4467	3744	2723	2199	1681	1072	787	589	521	352	304
C&D 2-2000LBT	5976	5009	3643	2942	2249	1434	1053	788	697	471	407
C&D 2-2500LBT	7495	6282	4569	3690	2821	1798	1321	988	874	591	511
C&D 2-3000LBT	8994	7539	5483	4428	3385	2158	1585	1186	1049	709	613

1.70 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	638	538	385	306	237	152	111	82.4	71.6	49.0	42.3
C&D 2-300LBT	960	809	576	458	355	228	166	123	107	73.4	63.3
C&D 2-400LBT	1282	1081	768	610	472	304	221	164	143	98.0	84.3
C&D 2-500LBT	1611	1358	957	760	589	379	275	205	178	122	105
C&D 2-600LBT	1927	1624	1145	909	704	453	329	245	213	146	126
C&D 2-800LBT	2545	2146	1512	1201	931	599	435	324	281	193	166
C&D 2-1000LBT	3190	2689	1895	1505	1166	750	545	406	352	242	208
C&D 2-1200LBT	3802	3205	2259	1794	1390	894	649	484	420	288	248
C&D 2-1500LBT	4769	4020	2833	2250	1743	1122	814	607	527	361	311
C&D 2-2000LBT	6380	5378	3790	3010	2332	1501	1089	812	705	483	416
C&D 2-2500LBT	8001	6745	4753	3775	2925	1882	1366	1018	884	606	522
C&D 2-3000LBT	9602	8094	5704	4530	3510	2259	1639	1222	1061	727	626

1.65 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	661	563	399	318	241	154	112	84.4	72.0	50.3	42.6
C&D 2-300LBT	995	848	598	476	361	231	167	126	108	75.3	63.8
C&D 2-400LBT	1329	1132	796	634	480	307	223	168	144	100	85.0
C&D 2-500LBT	1669	1422	993	791	599	383	278	210	179	125	106
C&D 2-600LBT	1996	1701	1188	946	716	458	332	251	214	150	127
C&D 2-800LBT	2637	2247	1569	1250	946	605	439	332	283	198	167
C&D 2-1000LBT	3305	2816	1966	1566	1186	758	550	416	354	248	210
C&D 2-1200LBT	3939	3356	2343	1867	1414	904	656	496	422	295	250
C&D 2-1500LBT	4940	4209	2939	2341	1773	1134	823	622	530	370	314
C&D 2-2000LBT	6609	5631	3932	3132	2372	1517	1101	832	709	495	420
C&D 2-2500LBT	8289	7062	4931	3928	2975	1902	1381	1043	889	621	527
C&D 2-3000LBT	9947	8475	5918	4714	3570	2283	1657	1252	1067	745	632

1.60 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	671	574	405	322	242	155	113	85.2	72.4	50.7	43.0
C&D 2-300LBT	1010	864	606	483	363	232	169	128	108	75.9	64.4
C&D 2-400LBT	1349	1154	808	643	484	310	225	170	144	101	85.8
C&D 2-500LBT	1695	1450	1007	802	603	386	280	212	180	126	107
C&D 2-600LBT	2027	1734	1204	959	721	462	335	254	215	151	128
C&D 2-800LBT	2678	2291	1591	1267	953	610	442	335	284	199	169
C&D 2-1000LBT	3356	2871	1994	1588	1194	764	554	420	356	249	212
C&D 2-1200LBT	4000	3422	2377	1893	1423	911	661	500	425	297	253
C&D 2-1500LBT	5017	4292	2981	2374	1785	1143	829	628	533	373	317
C&D 2-2000LBT	6712	5742	3988	3176	2388	1529	1109	840	713	499	424
C&D 2-2500LBT	8418	7201	5001	3983	2995	1917	1391	1053	894	626	532
C&D 2-3000LBT	10102	8642	6002	4780	3594	2301	1669	1264	1073	751	638

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

1.85 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	273	214	168	132	103	69.5	49.0	37.9	33.1	23.5	19.8
C&D 2-300LBT	411	322	252	198	154	104	73.4	56.8	49.5	35.2	29.6
C&D 2-400LBT	549	430	335	264	205	139	98.0	75.6	66.0	46.9	39.5
C&D 2-500LBT	690	540	418	329	255	173	122	94.3	82.3	58.5	49.2
C&D 2-600LBT	825	646	500	393	305	207	146	113	98.4	70.0	58.8
C&D 2-800LBT	1090	853	660	520	403	273	193	149	130	92.4	77.7
C&D 2-1000LBT	1366	1069	651	828	505	343	242	187	163	116	97.4
C&D 2-1200LBT	1628	1274	986	776	602	408	288	223	194	138	116
C&D 2-1500LBT	2042	1598	1237	974	755	512	361	279	244	173	146
C&D 2-2000LBT	2732	2138	1655	1303	1010	685	483	373	326	232	195
C&D 2-2500LBT	3427	2682	2076	1634	1266	859	606	468	409	291	244
C&D 2-3000LBT	4112	3218	2491	1961	1520	1031	727	562	491	349	293

1.80 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	320	257	189	151	115	72.8	53.1	39.7	34.8	24.1	20.4
C&D 2-300LBT	482	386	283	226	172	109	79.5	59.4	52.1	36.1	30.5
C&D 2-400LBT	643	516	377	301	229	145	106	79.2	69.5	48.1	40.6
C&D 2-500LBT	808	648	470	375	285	181	132	98.7	86.6	60.0	50.7
C&D 2-600LBT	966	775	562	449	341	216	158	118	104	71.8	60.6
C&D 2-800LBT	1277	1024	743	593	450	286	209	156	137	95.0	80.1
C&D 2-1000LBT	1600	1283	931	743	564	358	261	195	171	119	100
C&D 2-1200LBT	1907	1529	1109	885	673	427	312	233	204	142	120
C&D 2-1500LBT	2392	1918	1391	1110	844	536	391	292	256	178	150
C&D 2-2000LBT	3200	2566	1861	1485	1129	717	523	391	343	238	201
C&D 2-2500LBT	4013	3218	2334	1862	1416	899	656	490	430	298	252
C&D 2-3000LBT	4816	3862	2801	2235	1699	1079	787	588	516	358	302

LBTY 2V Series

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

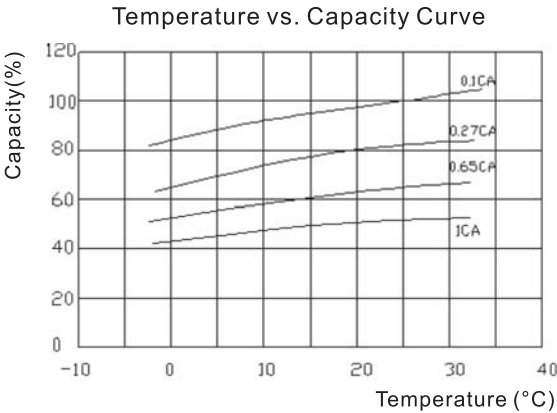
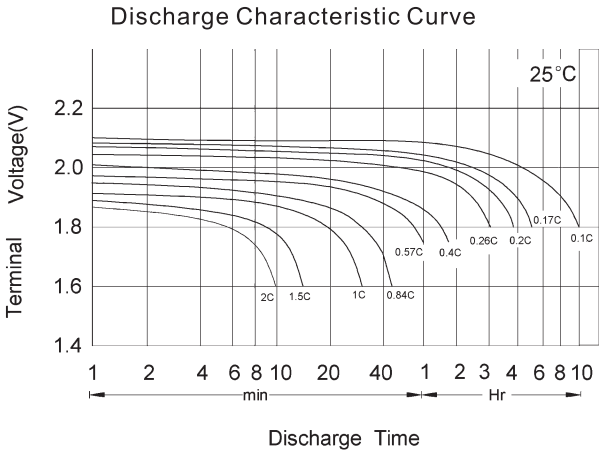
1.75 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	339	270	199	158	120	77.2	55.9	40.6	35.7	24.6	20.8
C&D 2-300LBT	510	406	299	237	179	116	83.7	60.8	53.5	36.9	31.2
C&D 2-400LBT	681	543	398	315	239	154	111	81.0	71.2	49.2	41.6
C&D 2-500LBT	855	682	496	393	298	192	139	101	88.8	61.3	51.8
C&D 2-600LBT	1023	816	593	470	356	230	166	121	106	73.3	62.0
C&D 2-800LBT	1351	1078	784	621	471	303	220	160	140	96.9	81.9
C&D 2-1000LBT	1693	1350	982	778	590	380	275	200	176	121	103
C&D 2-1200LBT	2018	1610	1171	927	703	453	328	238	210	145	122
C&D 2-1500LBT	2531	2019	1468	1163	882	568	411	299	263	181	153
C&D 2-2000LBT	3386	2701	1964	1556	1180	760	550	400	352	243	205
C&D 2-2500LBT	4246	3387	2463	1952	1480	953	690	502	441	304	257
C&D 2-3000LBT	5096	4065	2956	2342	1776	1144	828	602	529	365	309

1.70 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	361	296	209	165	123	80.0	56.7	41.8	36.3	25.1	21.2
C&D 2-300LBT	544	446	314	247	184	120	84.9	62.6	54.4	37.6	31.8
C&D 2-400LBT	726	595	418	330	245	160	113	83.4	72.4	50.1	42.4
C&D 2-500LBT	912	748	521	411	306	199	141	104	90.3	62.5	52.8
C&D 2-600LBT	1091	895	623	492	366	238	169	124	108	74.8	63.2
C&D 2-800LBT	1441	1182	823	649	483	314	223	164	143	99.0	83.5
C&D 2-1000LBT	1806	1481	1032	814	606	394	279	206	179	124	105
C&D 2-1200LBT	2152	1765	1230	970	722	470	333	245	213	148	125
C&D 2-1500LBT	2700	2214	1542	1217	906	589	417	308	267	185	156
C&D 2-2000LBT	3612	2962	2063	1628	1212	788	558	412	358	248	209
C&D 2-2500LBT	4530	3715	2587	2042	1520	988	700	517	448	311	262
C&D 2-3000LBT	5436	4458	3105	2450	1824	1186	840	620	538	373	315

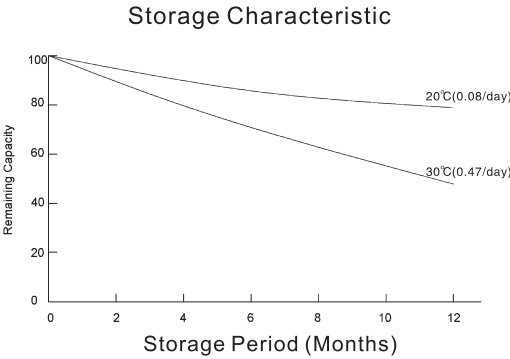
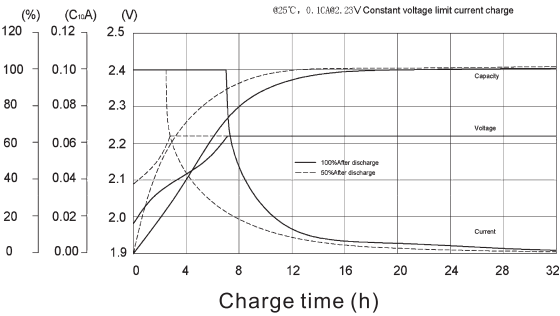
1.65 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	379	300	212	172	125	82.0	57.1	42.6	36.9	25.5	21.5
C&D 2-300LBT	570	451	318	257	188	123	85.5	63.8	55.3	38.2	32.3
C&D 2-400LBT	761	603	423	342	250	164	114	85.0	73.6	50.8	43.0
C&D 2-500LBT	956	757	528	427	312	204	142	106	91.8	63.4	53.6
C&D 2-600LBT	1143	905	631	511	373	244	170	127	110	75.8	64.1
C&D 2-800LBT	1510	1196	834	675	493	322	224	167	145	100	84.7
C&D 2-1000LBT	1893	1499	1045	845	618	404	281	210	182	126	106
C&D 2-1200LBT	2256	1787	1246	1008	736	481	335	250	217	150	127
C&D 2-1500LBT	2830	2241	1563	1264	924	604	420	314	272	188	159
C&D 2-2000LBT	3786	2998	2091	1691	1236	808	562	420	364	251	212
C&D 2-2500LBT	4748	3760	2622	2121	1550	1013	705	527	456	315	266
C&D 2-3000LBT	5698	4512	3147	2545	1860	1216	846	632	547	378	319

1.60 EPV	10min	15min	30min	45min	1hr	2hr	3hr	4hr	5hr	8h	10hr
C&D 2-200LBT	383	308	215	173	127	85.6	57.9	43.4	37.4	25.9	21.7
C&D 2-300LBT	576	463	323	259	190	128	86.7	65.0	56.0	38.8	32.6
C&D 2-400LBT	770	618	430	346	253	171	115	86.6	74.7	51.7	43.4
C&D 2-500LBT	967	777	536	431	316	213	144	108	93.1	64.5	54.1
C&D 2-600LBT	1157	929	641	515	378	255	172	129	111	77.1	64.7
C&D 2-800LBT	1528	1228	847	681	499	337	228	171	147	102	85.5
C&D 2-1000LBT	1915	1538	1061	853	626	422	285	214	184	128	107
C&D 2-1200LBT	2282	1834	1265	1017	746	503	340	255	220	152	128
C&D 2-1500LBT	2862	2300	1587	1276	935	630	426	320	276	191	160
C&D 2-2000LBT	3829	3077	2123	1707	1251	843	570	428	369	255	214
C&D 2-2500LBT	4802	3859	2662	2141	1569	1057	715	537	462	320	268
C&D 2-3000LBT	5763	4631	3195	2569	1883	1269	858	644	555	384	322

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.