



C&D 12V LBTY

Front Access

Valve Regulated Lead Acid Battery



APPLICATIONS

- Telecommunications
- DC Systems
- Customer Promises
- Broadband
- PBX
- Microwave Repeater
- Fiber Optic Regen Sites
- Fixed Wireless

FEATURES

- Design life (25°C): 10 years
- Flame-arresting one-way pressure-relief vent for safety and long life.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Computer designed lead, low Calcium alloy grid for minimal gassing and ease of recycling.
- Front terminal design, convenient for battery maintenance, increasing safety, and saving the installation room
- UL-recognized component.
- Can be used in upright, side, or end mounting orientation.
- Not restricted for air transport – Complies with IATA/ICAO Special Provision A67.
- Not restricted for surface transport – classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189
- Not restricted for water transport – classified as non-hazardous material per IMDG Amendment 27

SPECIFICATIONS

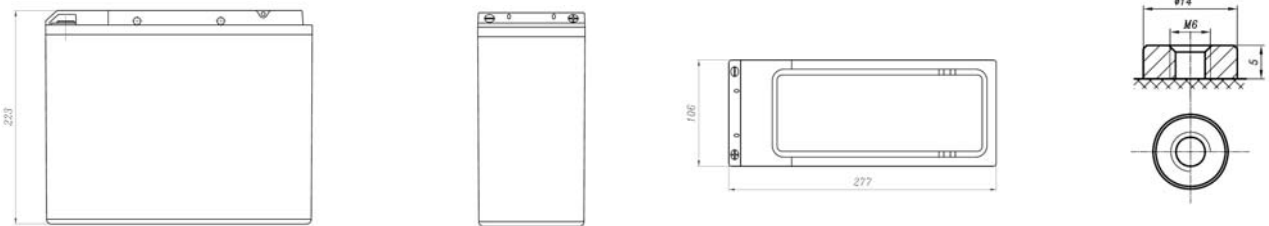
Model	V	Capacity/Ah (C10,1.80V@25°C)	Dimensions/mm (L*W*H*Total Height)				Weight /Kg	Terminal(Bolt)	Resistance/ mΩ
C&D 12F-55 LBT	12	55	227	106	223	223	18	Insert (M6)	6
C&D 12F-90 LBT	12	90	563	114	189	189	26.5	Insert (M8)	5.8
C&D 12F-105 LBT	12	105	508	111	236	236	32.5	Insert (M6)	5
C&D 12F-125 LBT	12	125	436	108	317	323	41.5	Insert (M8)	5
C&D 12F-135 LBT	12	135	551	109	239	239	41	Insert (M8)	3.8
C&D 12F-160 LBT	12	160	555	110	288	288	49	Insert (M8)	4
C&D 12F-180 LBT	12	180	560	125	316	316	53.5	Insert (M8)	4

SPECIFICATIONS

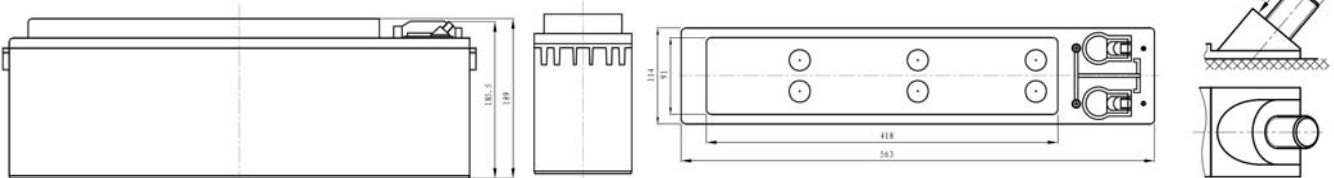
Operating Temperature Range	Discharge: -20°C to 60°C; Charge: 0°C to 50°C; Storage: -20°C to 60°C
Recommended Operating Temperature Range	25°C ± 5°C
Floating Charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	0.3C ₁₀ A @ 10 hr. rate
Equalization and Cycle Service Charging Voltage	14.6 to 14.8 VDC/unit Average at 25°C
Maximum Discharging Current Limit	10C ₁₀ A @ 10 hr. rate
Self Discharge	Batteries may be stored for up to 6 months at 25°C, and self-discharge rate less than 3% per month. Please charging the battery before using.
Accessories	Inter unit connectors, racks and cabinet systems are available
Container and Cover Materials	ABS (UL94 HB)

BATTERY DIMENSIONS SCHEMATICS

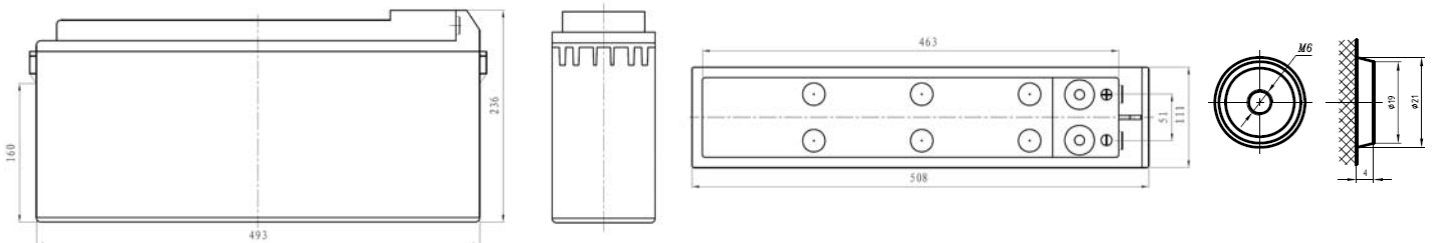
C&D 12F-55 LBT



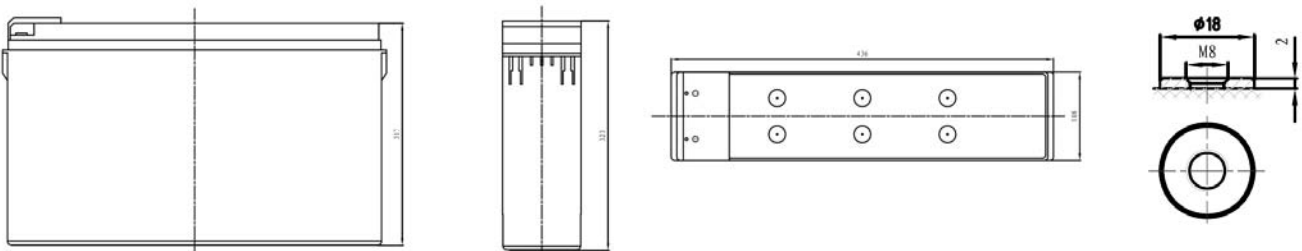
C&D 12F-90 LBT



C&D 12F-105 LBT

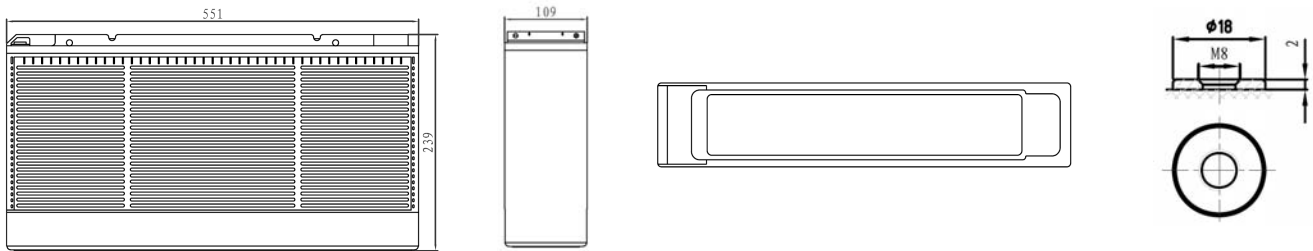


C&D 12F-125 LBT

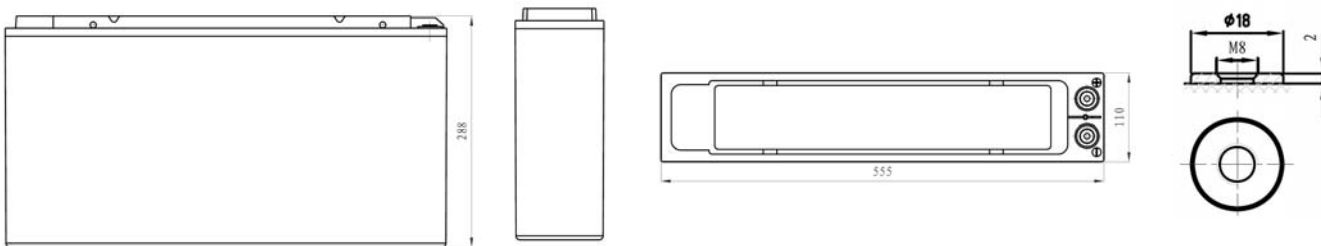


* All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

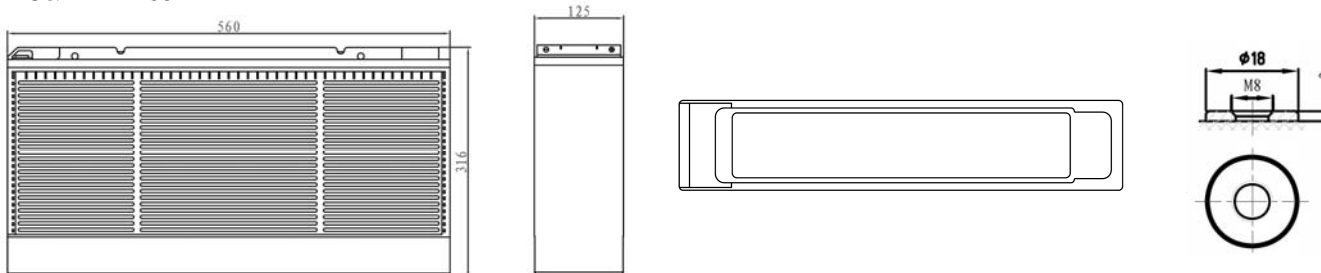
C&D 12F-135 LBT



C&D 12F-160 LBT



C&D 12F-180 LBT



C&D 12F-55 LBT

Constant Power Discharge Table - Watts Per Cell @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	193.2	149.0	126.5	97.9	60.29	38.07	26.29	21.67	17.85	12.55	10.78	5.33
1.80	220.0	164.8	140.5	103.9	62.98	39.53	27.48	22.77	18.65	13.11	11.11	5.67
1.75	241.5	178.8	152.0	105.6	64.17	40.05	28.25	23.30	18.99	13.33	11.22	5.78
1.70	265.3	192.0	159.4	106.4	64.75	40.34	28.36	23.52	19.22	13.44	11.33	5.89
1.67	268.3	197.2	161.2	107.1	65.25	40.58	28.48	23.57	19.29	13.53	11.43	6.00
1.60	273.7	203.4	163.8	108.5	65.41	40.80	28.47	23.60	19.33	13.60	11.51	6.10

Constant Current Discharge Table - Amps @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	101.52	79.12	67.82	50.63	30.78	19.05	13.15	10.84	8.92	6.28	5.39	2.67
1.80	118.90	88.53	75.60	54.08	32.40	19.94	13.75	11.39	9.32	6.55	5.55	2.83
1.75	131.73	97.08	82.02	55.02	33.18	20.30	14.14	11.66	9.50	6.67	5.61	2.89
1.70	146.69	105.21	86.14	55.44	33.49	20.46	14.19	11.77	9.61	6.72	5.67	2.94

C&D 12F-90 LBT

Constant Power Discharge Table - Watts Per Cell @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	309.8	243.8	207.0	160.2	98.65	62.29	43.02	35.46	29.20	20.54	17.63	8.73
1.80	352.7	269.7	229.9	170.1	103.06	64.69	44.96	37.26	30.51	21.45	18.18	9.27
1.75	387.3	292.6	248.7	172.9	105.00	65.53	46.22	38.13	31.08	21.81	18.36	9.45
1.70	425.4	314.2	260.8	174.1	105.95	66.01	46.40	38.49	31.45	22.00	18.54	9.63
1.67	430.3	322.7	263.7	175.3	106.78	66.41	46.61	38.57	31.56	22.14	18.71	9.82
1.60	439.0	332.9	268.1	177.5	107.03	66.76	46.59	38.62	31.64	22.25	18.83	9.99

Constant Current Discharge Table - Amps @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	162.80	129.47	110.97	82.85	50.36	31.17	21.51	17.73	14.60	10.27	8.82	4.36
1.80	190.66	144.87	123.72	88.49	53.01	32.62	22.50	18.63	15.26	10.73	9.09	4.64
1.75	211.24	158.86	134.21	90.03	54.29	33.22	23.13	19.08	15.54	10.91	9.18	4.73
1.70	235.24	172.16	140.96	90.72	54.81	33.47	23.22	19.26	15.72	11.00	9.27	4.82

C&D 12F-105 LBT

Constant Power Discharge Table - Watts Per Cell @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	361.5	284.5	241.5	186.9	115.09	72.67	50.19	41.37	34.07	23.96	20.57	10.18
1.80	411.5	314.6	268.2	198.4	120.24	75.48	52.46	43.47	35.60	25.03	21.21	10.82
1.75	451.8	341.3	290.2	201.7	122.50	76.45	53.93	44.48	36.25	25.45	21.42	11.03
1.70	496.3	366.6	304.2	203.1	123.61	77.01	54.13	44.90	36.69	25.66	21.63	11.24
1.67	502.0	376.5	307.7	204.5	124.57	77.48	54.37	45.00	36.82	25.83	21.83	11.45
1.60	512.1	388.4	312.7	207.1	124.87	77.89	54.35	45.06	36.91	25.96	21.96	11.65

Constant Current Discharge Table - Amps @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	189.93	151.05	129.47	96.66	58.75	36.37	25.10	20.69	17.04	11.98	10.29	5.09
1.80	222.44	169.01	144.34	103.24	61.85	38.06	26.25	21.74	17.80	12.51	10.60	5.41
1.75	246.45	185.34	156.58	105.04	63.34	38.76	26.99	22.26	18.13	12.72	10.71	5.51
1.70	274.45	200.85	164.46	105.83	63.94	39.05	27.09	22.47	18.35	12.83	10.82	5.62

C&D 12F-125 LBT

Constant Power Discharge Table - Watts Per Cell @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	417.1	338.7	287.4	222.5	137.02	86.51	59.75	49.25	40.56	28.53	24.49	12.12
1.80	474.9	374.6	319.3	236.2	143.14	89.85	62.45	51.75	42.38	29.79	25.25	12.88
1.75	521.4	406.4	345.5	240.1	145.83	91.01	64.20	52.96	43.16	30.30	25.50	13.13
1.70	572.7	436.4	362.2	241.8	147.16	91.68	64.45	53.46	43.68	30.55	25.75	13.38
1.67	579.4	448.2	366.3	243.5	148.30	92.23	64.73	53.57	43.83	30.75	25.98	13.63
1.60	591.0	462.4	372.3	246.5	148.66	92.73	64.71	53.64	43.94	30.90	26.15	13.87

Constant Current Discharge Table - Amps @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	219.19	179.82	154.13	115.07	69.94	43.30	29.88	24.63	20.28	14.26	12.25	6.06
1.80	256.71	201.20	171.83	122.91	73.63	45.31	31.25	25.88	21.19	14.90	12.62	6.44
1.75	284.41	220.64	186.41	125.04	75.41	46.14	32.13	26.50	21.58	15.15	12.75	6.56
1.70	316.73	239.11	195.78	125.99	76.12	46.49	32.25	26.75	21.84	15.27	12.88	6.69

C&D 12F-135 LBT

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

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	450.5	365.8	310.4	240.3	147.98	93.43	64.53	53.19	43.80	30.81	26.45	13.09
1.80	512.9	404.5	344.9	255.1	154.59	97.04	67.44	55.89	45.77	32.18	27.27	13.91
1.75	563.1	438.9	373.1	259.3	157.50	98.29	69.33	57.19	46.61	32.72	27.54	14.18
1.70	618.6	471.3	391.2	261.1	158.93	99.01	69.60	57.73	47.17	32.99	27.81	14.45
1.67	625.7	484.1	395.6	263.0	160.17	99.61	69.91	57.86	47.34	33.21	28.06	14.72
1.60	638.3	499.4	402.1	266.2	160.55	100.14	69.88	57.93	47.46	33.37	28.24	14.98

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

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	236.72	194.21	166.46	124.27	75.54	46.76	32.27	26.60	21.90	15.41	13.22	6.54
1.80	277.24	217.30	185.58	132.74	79.52	48.93	33.75	27.95	22.89	16.09	13.63	6.95
1.75	307.16	238.30	201.32	135.05	81.44	49.83	34.70	28.62	23.31	16.36	13.77	7.09
1.70	342.06	258.24	211.44	136.07	82.21	50.21	34.83	28.89	23.59	16.50	13.91	7.23

C&D 12F-160 LBT

Constant Power Discharge Table - Watts Per Cell @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	505.8	390.1	349.5	284.8	175.38	110.74	76.48	63.04	51.92	36.52	31.35	15.51
1.80	575.9	431.5	388.3	302.4	183.22	115.01	79.93	66.24	54.25	38.13	32.32	16.48
1.75	632.3	468.1	420.1	307.3	186.67	116.50	82.17	67.78	55.24	38.78	32.64	16.80
1.70	694.5	502.7	440.4	309.4	188.36	117.35	82.49	68.42	55.91	39.10	32.96	17.13
1.67	702.6	516.3	445.4	311.7	189.83	118.06	82.85	68.57	56.10	39.36	33.26	17.45
1.60	716.7	532.7	452.7	315.5	190.28	118.69	82.82	68.66	56.25	39.55	33.47	17.76

Constant Current Discharge Table - Amps @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	265.79	207.15	187.42	147.29	89.53	55.42	38.24	31.52	25.96	18.26	15.67	7.76
1.80	311.29	231.79	208.94	157.32	94.24	58.00	40.00	33.12	27.12	19.07	16.16	8.24
1.75	344.88	254.18	226.67	160.06	96.52	59.06	41.12	33.92	27.62	19.39	16.32	8.40
1.70	384.07	275.46	238.07	161.27	97.43	59.51	41.28	34.24	27.96	19.55	16.48	8.56

C&D 12F-180 LBT

Constant Power Discharge Table - Watts Per Cell @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	569.1	438.9	393.2	320.4	197.30	124.58	86.04	70.92	58.41	41.08	35.27	17.45
1.80	647.9	485.4	436.8	340.2	206.12	129.39	89.93	74.52	61.03	42.90	36.36	18.54
1.75	711.3	526.6	472.6	345.7	210.00	131.06	92.44	76.26	62.15	43.63	36.72	18.91
1.70	781.3	565.5	495.5	348.1	211.90	132.02	92.80	76.98	62.90	43.99	37.08	19.27
1.67	790.4	580.9	501.1	350.6	213.56	132.82	93.21	77.14	63.12	44.28	37.42	19.63
1.60	806.3	599.2	509.3	355.0	214.07	133.52	93.18	77.24	63.28	44.49	37.65	19.98

Constant Current Discharge Table - Amps @ 25°C

EPV	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85	299.02	233.05	210.84	165.70	100.72	62.35	43.02	35.46	29.20	20.54	17.63	8.73
1.80	350.20	260.76	235.06	176.99	106.02	65.24	45.00	37.26	30.51	21.45	18.18	9.27
1.75	387.99	285.95	255.01	180.06	108.59	66.44	46.26	38.16	31.08	21.81	18.36	9.45
1.70	432.08	309.89	267.83	181.43	109.61	66.95	46.44	38.52	31.45	22.00	18.54	9.63

Note: Specifications subject to change without notification.