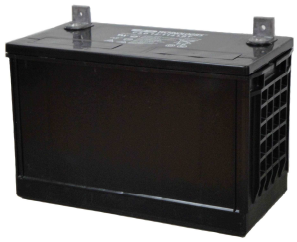
C&D TECHNOLOGIES
Power Solutions
LBT

C&D TECHNOLOGIES® LBT

C&D 12-100R LBT



VALVE REGULATED LEAD ACID BATTERY

FOR STANDBY POWER APPLICATIONS

12V 100 AH @ 20 HR Rate,

12V 315 Watts/Cell @ 15 Min Rate

APPLICATIONS

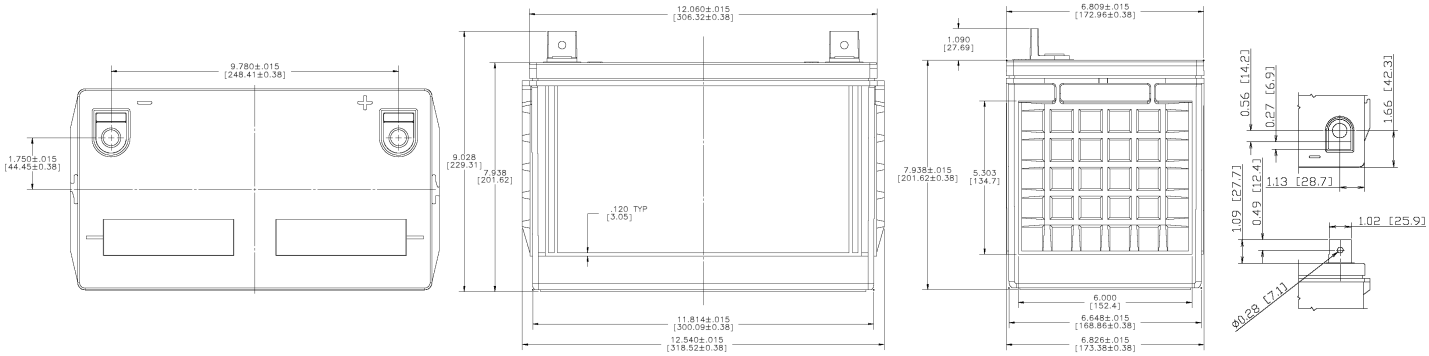
- **Telecommunications**
- **General Purpose Applications**
- **Uninterrupted Power Supply (UPS)**
- **Other Float Applications**

FEATURES

- Design life: 7 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.
- Multicell design for economy of installation and maintenance.
- Computer designed lead, low Calcium alloy grid for minimal gassing and ease of recycling.
- 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

Cells Per Unit	Voltage	Weight	IEC Rating (C10, 1.80V @ 20℃)	Capacity (C20, 1.75V @ 25℃)	Short Circuit Current	Resistance
6	12.98V	29 Kg	86 Ah	100 Ah	2405 Amps	5.2 (mΩ)



* All dimensions are in inches (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˚F (-40˚C) to +160˚F (71˚C). Charge: -10˚F (-23˚C) to +140˚F (60˚C)
Recommended Operating Temperature Range	+74˚F (23˚C) to +80˚F (27˚C).
Floating Charging Voltage	13.65 ± 0.15 VDC/unit Average at 77˚F (25˚C).
Recommended Maximum Charging Current Limit	C/5 amperes @ 20 hr. rate.
Equalization and Cycle Service Charging Voltage	14.4 to 14.8 VDC/unit Average at 77˚F (25˚C).
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P). Maximum current allowed = 5.10 amperes RMS (C/20).
Self Discharge	Batteries may be stored for up to 6 months at 77˚F (25˚C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Accessories	Inter unit connectors, racks and cabinet systems are available.
Terminal:	"L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.
Container Materials	PP (UL-94 HB)

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

Operating Time to End Point Voltage

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	366.3	307.7	257.8	218.6	192.2	173.1	134.6	112.6	80.7	63.67	45.61	35.98	29.93	20.30	16.79	14.20	8.85
1.80	456.5	339.5	286.8	238.4	206.4	183.6	141.6	117.8	84.2	66.33	47.39	37.32	31.00	21.06	17.21	14.61	9.21
1.75	489.0	360.2	296.8	246.6	213.5	189.8	145.6	120.6	86.0	67.61	48.18	37.87	31.41	21.19	17.35	14.75	9.35
1.70	505.7	372.9	308.8	255.4	220.4	195.4	148.0	121.6	86.6	68.11	48.50	38.11	31.61	21.30	17.49	14.93	9.39
1.67	516.1	384.4	314.8	259.6	223.4	197.7	149.2	122.2	87.0	68.40	48.70	38.26	31.71	21.31	17.55	14.97	9.44
1.65	523.2	392.7	319.8	262.8	225.7	199.3	150.1	122.7	87.3	68.60	48.83	38.36	31.80	21.33	17.61	15.01	9.45

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

Operating Time to End Point Voltage

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	125.1	124.3	114.7	82.6	52.7	38.8	31.23	22.19	17.41	14.42	12.37	10.87	9.70	7.97	6.83	4.34	3.69
1.85	168.0	158.1	135.5	93.2	57.9	42.7	34.42	24.24	18.90	15.58	13.31	11.65	10.38	8.56	7.31	4.70	4.01
1.80	202.4	175.9	152.5	101.2	60.5	44.5	35.74	25.18	19.70	16.22	13.84	12.10	10.78	8.88	7.58	4.86	4.14
1.75	247.4	192.8	161.2	104.6	61.9	45.0	35.95	25.39	19.84	16.38	14.01	12.27	10.95	9.04	7.74	5.00	4.26

* C&D 12-100R LBT is the same product as C&D 12-100 LBT, but changes the side structure design of container with adding strengthen rib to improve appearance and strength.

C&D TECHNOLOGIES

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