C&D TECHNOLOGIES
Power Solutions
LBT

C&D TECHNOLOGIES® LBT

C&D 12-78 LBT

VALVE REGULATED LEAD ACID BATTERY

FOR STANDBY POWER APPLICATIONS

12V 78 AH @ 20 HR Rate,

12V 253 Watts/Cell @ 15 Min Rate

APPLICATIONS

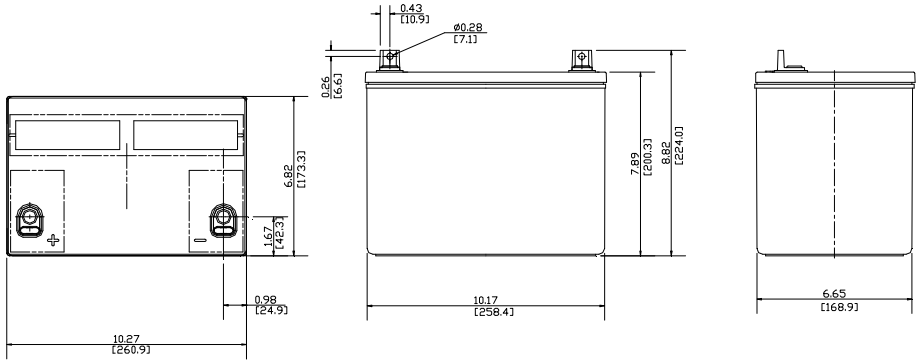
- **Telecommunications**
- **General Purpose Applications**
- **Uninterrupted Power Supply (UPS)**
- **Other Float Applications**

FEATURES

- Design life: 7-10 years
- Robust plate for extended life.
- 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.
- UL-recognized component.
- Multicell design for economy of installation and maintenance.
- Can be used in any orientation. Upright, side, or end mounting recommended.
- 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
- Computer designed lead, low Calcium alloy grid for minimal gassing and ease of recycling.

SPECIFICATIONS

Cells Per Unit	Voltage	Weight	Capacity		1 Min Current to 1.75VPC	Short Circuit Current	Resistance
6	12.98V	24 Kg	72 Ah (C10,1.80V)	78 Ah (C20, 1.75V)	330 Amps	1966 Amps	6.3 (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	"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

End Voltage	Min					Hour											
Per Cell	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	282.3	254.4	206.7	140.3	86.9	50.4	36.5	29.1	24.3	21.0	18.7	16.6	14.9	13.5	11.4	7.1	6.0
1.80	359.0	280.5	226.8	150.3	89.9	52.2	37.9	30.0	25.0	21.7	19.1	16.9	15.2	13.9	11.8	7.4	6.2
1.75	398.7	301.3	241.4	157.9	91.1	52.8	38.2	30.4	25.4	21.9	19.3	17.2	15.4	14.0	11.9	7.5	6.3
1.70	410.6	310.3	248.6	160.5	92.2	53.3	38.5	30.6	25.6	22.1	19.4	17.2	15.5	14.1	12.0	7.5	6.3
1.67	418.2	314.8	253.2	162.0	93.0	53.6	38.7	30.7	25.7	22.2	19.5	17.3	15.6	14.1	12.0	7.5	6.4
1.65	423.4	320.2	256.0	163.3	93.4	53.8	38.8	30.8	25.7	22.3	19.5	17.3	15.6	14.2	12.0	7.5	6.4

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

Operating Time to End Point Voltage

End Voltage	Min					Hour											
Per Cell	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	139.5	130.1	105.3	69.5	43.5	25.4	18.3	14.5	12.1	10.6	9.4	8.3	7.5	6.8	5.86	3.69	3.13
1.80	171.1	146.0	117.0	75.0	46.7	27.0	19.4	15.4	12.8	11.2	9.9	8.8	7.9	7.2	6.19	3.89	3.30
1.75	206.9	155.0	123.6	78.2	48.3	27.8	19.9	15.7	13.1	11.4	10.1	8.9	8.0	7.3	6.27	3.94	3.34
1.70	232.3	161.4	128.0	80.0	49.1	28.1	20.1	15.9	13.2	11.5	10.2	9.0	8.1	7.4	6.31	3.96	3.35

* 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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