



C&D 12-100 DNT

Valve Regulated Lead Acid Battery

For UPS Standby Power Applications

12V 100 Watts/Cell @ 15 Min Rate

12V 34 AH @ 20 HR Rate



APPLICATIONS

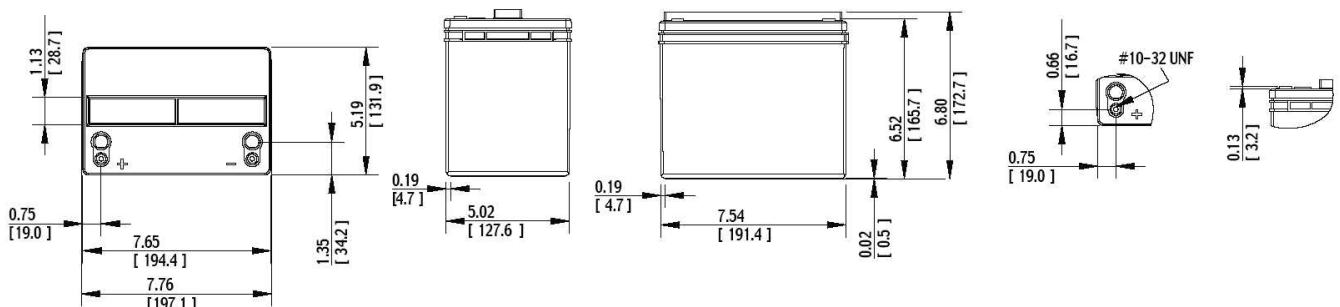
- Data Centers
- Network Operation Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks and Financial Markets
- Power Generation Plants
- Hospital and Testing Laboratories
- Emergency Response Center

FEATURES

- Design life:12 year
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Patented Long Life Alloy having the lowest calcium levels in the industry - minimizing grid growth, reducing gassing, and extending battery life
- Patented UL Recognized Flame-arresting vents in each cell for safety and long life.
- Designed with the same recombination, thermal runaway prevention, gassing and flame retardant characteristics of the Bellcore 4228
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- Can be operated in any orientation. Upright, side or end mounting recommended.
- 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 Title 49 parts171-189
- Not restricted for water transport - Classified as non-hazardous material per IMDG Amendment 27.

SPECIFICATIONS

Cell Per Unit	Voltage	Weight	Capacity		1 Min Current to 1.75VPC	Short Circuit Current	Resistance
6	12.98V	10.7 Kg	31 Ah (C10,1.80V)	34 Ah (C20,1.75V)	171 Amps	1003 Amps	12.35 (mΩ)



*All dimensions in inches and (millimeters). 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)
Nominal Operating Temperature Range	+74° F (23° C) to +80° F (27° C)
Recommended Maximum Charging Current Limit	C/5 amperes @ 20hr rate
Float Charging Voltage	13.65 ± 0.15 VDC average per 12V unit. (6.75 to 6.90 per 6V unit)
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Max voltage allowed = 1.4% RMS (4% P-P) Max current allowed = C/20
Self Discharge	Battery can be stored up to 6 months at 77° F (25° C) before a freshening charge is required. Batteries stored at temperatures greater than 77° F (25° C) will require recharge sooner than batteries stored at lower temperatures. See C&D brochure 41-7272, Self-Discharge and Inventory Control for details.
Equalize charge and cycle service voltage	14.40 to 14.80 VDC average per 12V unit @ 77° F (25° C) (7.20 to 7.40 VDC per 6V unit.)
Terminal: Inserted	Threaded copper alloy insert terminal to accept #10-32UNF bolt
Container and Cover Materials	PP (UL-94 V2)

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

Operating Time to End Point Voltage

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	141.8	104.6	85.7	56.4	36.3	21.9	15.6	12.3	10.2	8.8	7.7	6.9	6.2	5.6	4.7	2.9	2.5
1.80	156.4	116.4	94.5	60.6	38.3	22.6	16.2	12.7	10.6	9.1	8.0	7.1	6.4	5.8	4.9	3.0	2.5
1.78	162.2	121.3	97.0	61.7	38.8	22.8	16.2	12.8	10.6	9.1	8.0	7.1	6.4	5.8	4.9	3.0	2.5
1.75	165.2	125.8	98.8	63.3	39.3	22.8	16.3	12.9	10.7	9.2	8.1	7.2	6.5	5.9	5.0	3.1	2.6
1.73	167.7	128.1	100.3	63.8	39.6	22.9	16.4	12.9	10.7	9.2	8.1	7.2	6.5	5.9	5.0	3.1	2.6
1.70	171.5	130.4	102.6	64.7	39.8	23.0	16.4	13.0	10.8	9.2	8.1	7.2	6.5	5.9	5.0	3.1	2.6
1.67	175.4	132.6	105.0	65.6	40.1	23.1	16.5	13.0	10.8	9.3	8.1	7.2	6.5	5.9	5.0	3.1	2.6
1.65	178.1	135.1	106.6	66.2	40.3	23.1	16.5	13.0	10.8	9.3	8.2	7.3	6.5	5.9	5.0	3.1	2.6

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

Operating Time to End Point Voltage

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.94	51.0	42.7	34.5	23.3	15.0	8.9	6.3	5.0	4.1	3.6	3.2	2.8	2.6	2.4	2.11	1.40	1.19
1.90	66.2	50.4	40.2	26.4	17.2	10.3	7.3	5.7	4.7	4.1	3.6	3.2	2.9	2.6	2.32	1.51	1.29
1.85	78.0	59.1	46.5	29.4	19.1	11.2	8.0	6.2	5.2	4.5	3.9	3.5	3.1	2.8	2.50	1.61	1.36
1.83	81.4	61.7	48.5	30.2	19.5	11.4	8.1	6.3	5.3	4.6	4.0	3.5	3.2	2.9	2.54	1.63	1.38
1.80	86.6	66.0	51.7	31.6	20.0	11.7	8.3	6.5	5.4	4.7	4.1	3.6	3.3	3.0	2.60	1.67	1.41
1.78	88.8	67.7	53.0	32.1	20.2	11.8	8.4	6.5	5.4	4.7	4.1	3.6	3.3	3.0	2.61	1.67	1.41
1.75	91.3	69.3	54.3	32.9	20.5	11.9	8.4	6.6	5.5	4.8	4.2	3.7	3.3	3.0	2.63	1.68	1.42
1.70	94.4	71.5	56.0	33.4	20.6	12.0	8.5	6.6	5.5	4.8	4.2	3.7	3.3	3.0	2.64	1.69	1.42

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