



# C&D 12-400 DNT

## Valve Regulated Lead Acid Battery For UPS Standby Power Applications

12V 400 Watts/Cell @ 15 Min Rate

12V 110 AH @ 20 HR Rate



### APPLICATIONS

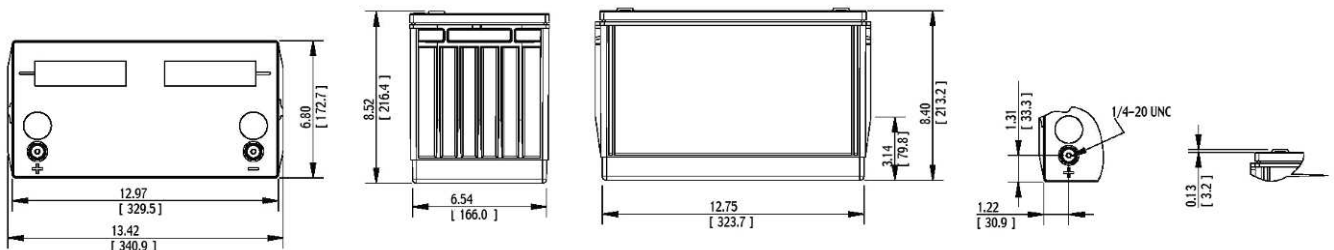
- Data Centers
- Network Operation Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks and Financial Markets
- Power Generation Plants
- Hospital and Testing Laboratories
- Emergency Response Center

### 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	35.3 Kg	100 Ah (C10,1.80V)	110 Ah (C20,1.75V)	572 Amps	3059 Amps	4.06 (mΩ)



\*All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

## SPECIFICATIONS

<b>Operating Temperature Range with temperature compensation</b>	Discharge: -40° F (-40° C) to +160° F (71° C) Charge: -10° F (-23° C) to +140° F (60° C)
<b>Nominal Operating Temperature Range</b>	+74° F (23° C) to +80° F (27° C)
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes @ 20hr rate
<b>Float Charging Voltage</b>	13.65 ± 0.15 VDC average per 12V unit. (6.75 to 6.90 per 6V unit)
<b>Maximum AC Ripple (Charger)</b>	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
<b>Self Discharge</b>	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.
<b>Equalize charge and cycle service voltage</b>	14.40 to 14.80 VDC average per 12V unit @ 77° F (25° C) (7.20 to 7.40 VDC per 6V unit.)
<b>Terminal: Inserted</b>	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt
<b>Container and Cover Materials</b>	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	546.9	411.2	338.0	225.4	145.9	81.6	58.0	45.5	37.7	32.5	28.2	24.9	22.3	20.2	17.0	10.5	8.8
1.80	614.3	461.1	372.0	240.3	153.2	85.3	60.4	47.3	39.1	33.7	29.3	25.9	23.2	21.0	17.6	10.9	9.1
1.78	630.2	470.5	379.3	244.3	154.5	85.9	60.8	47.6	39.3	34.0	29.5	26.0	23.3	21.1	17.7	10.9	9.2
1.75	639.7	482.5	385.5	251.7	156.5	86.9	61.5	48.1	39.7	34.1	29.7	26.3	23.5	21.3	17.9	11.0	9.2
1.73	649.1	493.5	391.3	253.9	157.0	87.2	61.7	48.2	39.8	34.2	29.9	26.4	23.6	21.3	17.9	11.0	9.2
1.70	663.3	502.2	399.2	257.2	157.8	87.6	61.9	48.4	40.0	34.2	30.0	26.7	23.8	21.5	18.1	11.0	9.2
1.67	673.4	516.1	407.0	260.7	158.6	88.0	62.2	48.6	40.2	34.4	30.1	26.8	23.9	21.6	18.1	11.1	9.3
1.65	678.6	521.7	410.9	263.0	159.1	88.3	62.4	48.8	40.3	34.4	30.2	26.8	24.0	21.7	18.2	11.1	9.3

### 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	147.3	147.3	134.4	95.0	58.5	32.2	22.6	17.5	14.4	12.3	10.8	9.6	8.6	7.9	6.77	4.34	3.69
1.90	212.4	199.5	160.3	107.9	67.2	36.7	25.6	19.8	16.2	13.9	12.1	10.7	9.7	8.8	7.56	4.82	4.09
1.85	293.7	234.8	187.0	120.2	73.8	40.2	28.0	21.6	17.7	15.1	13.2	11.7	10.5	9.6	8.20	5.21	4.42
1.83	316.7	244.4	195.1	123.6	75.4	41.0	28.5	22.0	18.0	15.4	13.4	11.9	10.7	9.7	8.32	5.28	4.48
1.80	344.5	260.6	208.0	129.0	77.7	42.1	29.2	22.5	18.4	15.7	13.7	12.1	10.9	9.9	8.50	5.39	4.56
1.78	354.2	268.5	213.9	131.1	78.5	42.5	29.5	22.7	18.6	15.8	13.8	12.2	11.0	10.0	8.55	5.42	4.59
1.75	361.0	275.5	218.0	132.8	78.7	42.7	29.6	23.0	18.8	16.0	13.9	12.4	11.1	10.1	8.64	5.46	4.63
1.70	374.2	284.9	226.0	137.0	78.9	42.9	29.8	23.0	18.9	16.1	14.0	12.4	11.2	10.2	8.74	5.56	4.72

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