



C&D 12-475 DNT

Valve Regulated Lead Acid Battery

For UPS Standby Power Applications

12V 475 Watts/Cell @ 15 Min Rate

12V 114 AH @ 20 HR Rate



APPLICATIONS

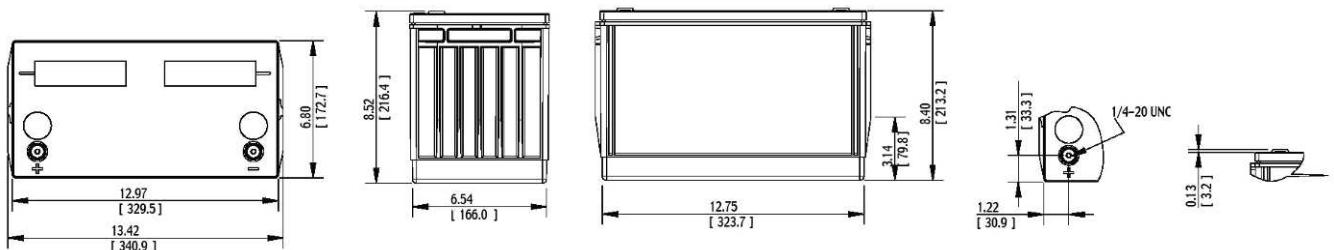
- Data Centers
- Network Operation Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks and Financial Markets
- Power Generation Plants
- Hospital and Testing Laboratories
- Emergency Response Center

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	38 Kg	106 Ah (C10,1.80V)	114 Ah (C20,1.75V)	670 Amps	3350 Amps	3.77 (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 1/4-20 UNC 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	551.7	471.8	377.3	244.3	156.6	84.8	59.2	45.8	37.5	31.9	27.8	24.7	22.2	20.2	17.1	10.8	9.1
1.80	663.5	526.9	414.3	262.2	164.9	88.9	61.8	47.7	39.0	33.1	28.8	25.6	23.0	20.9	17.7	11.1	9.4
1.78	691.4	545.6	427.3	266.9	166.4	89.6	62.2	48.1	39.3	33.3	29.0	25.7	23.1	21.0	17.8	11.2	9.4
1.75	727.0	574.8	440.3	274.0	168.6	90.6	62.9	48.6	39.7	33.7	29.3	25.9	23.3	21.2	17.9	11.2	9.5
1.73	736.9	586.1	446.3	276.7	169.4	91.0	63.1	48.7	39.8	33.8	29.4	26.0	23.4	21.2	18.0	11.3	9.5
1.70	758.3	603.4	459.3	280.9	170.5	91.5	63.5	48.9	40.0	33.9	29.5	26.1	23.5	21.3	18.0	11.3	9.5
1.67	783.1	621.2	474.3	285.1	171.6	92.0	63.8	49.2	40.2	34.0	29.6	26.2	23.5	21.4	18.1	11.3	9.6
1.65	789.7	633.3	478.3	288.0	172.5	92.4	64.0	49.3	40.3	34.1	29.7	26.3	23.6	21.4	18.1	11.3	9.6

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	192.3	192.3	157.3	103.2	64.2	35.1	24.4	18.9	15.5	13.2	11.5	10.2	9.2	8.4	7.19	4.58	3.89
1.90	265.5	236.1	185.5	117.2	72.8	39.5	27.4	21.2	17.3	14.8	12.9	11.4	10.3	9.3	8.00	5.07	4.30
1.85	356.9	274.7	215.5	130.9	80.5	43.4	30.1	23.1	18.9	16.1	14.0	12.4	11.1	10.1	8.66	5.47	4.63
1.83	372.1	285.2	224.7	134.7	82.3	44.3	30.6	23.6	19.2	16.4	14.2	12.6	11.3	10.3	8.79	5.54	4.69
1.80	395.7	303.2	239.0	140.7	84.7	45.6	31.5	24.2	19.7	16.8	14.6	12.9	11.6	10.5	8.99	5.66	4.79
1.78	406.2	309.1	245.4	143.1	85.3	46.0	31.8	24.4	19.9	16.9	14.7	13.0	11.7	10.6	9.05	5.69	4.81
1.75	422.5	323.8	255.3	146.8	85.6	46.7	32.2	24.7	20.1	17.1	14.9	13.1	11.8	10.7	9.14	5.74	4.85
1.70	436.3	331.7	261.8	149.8	86.2	47.1	32.5	24.9	20.3	17.2	15.0	13.2	11.9	10.8	9.19	5.77	4.87

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