



C&D 12-280 DNT

Valve Regulated Lead Acid Battery For UPS Standby Power Applications

12V 280 Watts/Cell @ 15 Min Rate

12V 84 AH @ 20 HR Rate



APPLICATIONS

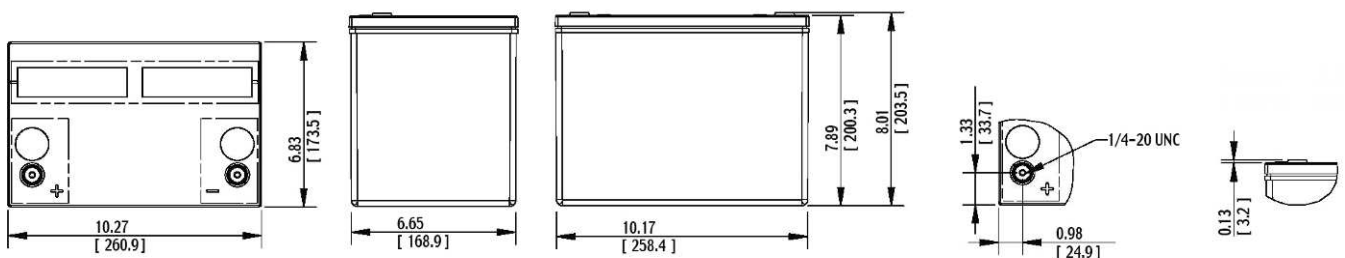
- Data Centers
- Network Operation Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks and Financial Markets
- Power Generation Plants
- Hospital and Testing Laboratories
- Emergency Response Center

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	25.7 Kg	75 Ah (C10,1.80V)	84 Ah (C20,1.75V)	475 Amps	2099 Amps	5.99 (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	363.6	279.6	229.3	151.6	98.3	59.4	41.9	32.7	27.0	23.0	20.2	17.9	16.1	14.6	12.3	7.6	6.3
1.80	412.9	311.3	255.1	163.2	103.5	61.6	43.4	33.8	27.9	23.8	20.9	18.6	16.6	15.1	12.7	7.8	6.6
1.78	433.5	321.1	262.4	166.3	104.6	62.1	43.7	34.0	28.0	23.9	21.0	18.7	16.7	15.2	12.8	7.9	6.6
1.75	452.2	333.1	271.3	171.1	106.5	62.7	44.1	34.4	28.3	24.2	21.1	18.9	16.9	15.3	12.9	7.9	6.7
1.73	459.1	339.1	275.3	172.8	107.0	62.9	44.3	34.5	28.4	24.2	21.2	18.9	16.9	15.3	12.9	7.9	6.7
1.70	472.3	344.4	278.3	174.7	107.8	63.1	44.4	34.6	28.5	24.3	21.3	19.0	17.0	15.4	13.0	8.0	6.7
1.67	481.0	350.7	283.3	177.3	108.7	63.4	44.6	34.7	28.6	24.4	21.4	19.1	17.1	15.4	13.0	8.0	6.7
1.65	493.9	357.5	287.3	179.1	109.8	63.7	44.8	35.0	28.8	24.6	21.5	19.1	17.1	15.5	13.0	8.0	6.7

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	123.7	122.7	105.0	69.2	43.0	24.0	16.8	13.1	10.7	9.2	8.1	7.2	6.5	5.9	5.12	3.30	2.81
1.90	177.6	144.8	119.5	78.6	48.5	26.9	18.8	14.6	12.0	10.3	9.0	8.0	7.2	6.6	5.67	3.64	3.10
1.85	224.6	169.2	135.3	86.8	53.3	29.4	20.5	15.9	13.0	11.2	9.7	8.7	7.8	7.1	6.12	3.91	3.32
1.83	232.8	175.0	140.3	88.8	54.5	30.0	20.9	16.2	13.3	11.4	9.9	8.8	7.9	7.2	6.23	3.98	3.38
1.80	245.9	184.0	148.3	91.9	56.0	30.9	21.6	16.7	13.7	11.7	10.2	9.1	8.2	7.4	6.40	4.09	3.47
1.78	252.3	188.8	152.1	93.3	56.5	31.2	21.7	16.8	13.8	11.8	10.3	9.1	8.2	7.5	6.44	4.11	3.49
1.75	256.9	192.4	154.9	94.4	56.8	31.5	22.0	17.0	13.9	11.9	10.4	9.2	8.3	7.6	6.50	4.15	3.52
1.70	267.0	200.8	161.0	96.5	57.2	31.8	22.2	17.1	14.0	12.0	10.5	9.3	8.4	7.6	6.56	4.18	3.54

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