

DCM0100L

Technical Specifications

Nominal Voltage	12V
Nominal Capacity	110Ah (20 Hr Rate to 1.75V/cell)
Chemistry	Lead Acid -AGM

Physical Specifications

Length	330mm	12.99in
Width	173mm	6.81in
Height	212mm	8.35in
Height w/Terminal	233mm	9.17in
Weight (+/- 5%)	30.6Kg	67.5bs
Terminal Type	NUT & BOLT	
Case Material	ABS	

Charging Specifications

Charge Voltage	Battery	Per Cell
Float	13.5V~13.8V	2.25V~2.30V
Cycle	14.4V~14.8V	2.40V~2.47V
Max. Charge Current	27A	

Capacity Specifications

5 Second Discharge Current	1200A
Self Discharge (to 80% capacity)	3 Months 91%
	6 Months 82%
	12 Months 64%
Internal Resistance	4.9mΩ(25°C)

Temperature Specifications

Operating Temperature Capability -40° F (-40° C) to 140° F (60° C)

Recommended parameters for optimal battery life and performance:

Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

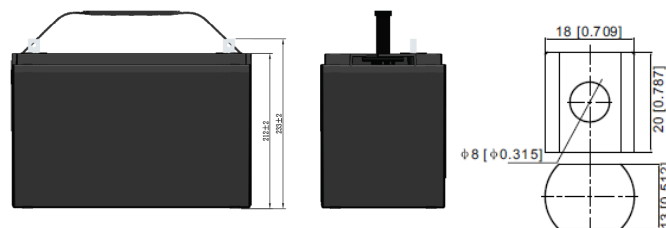
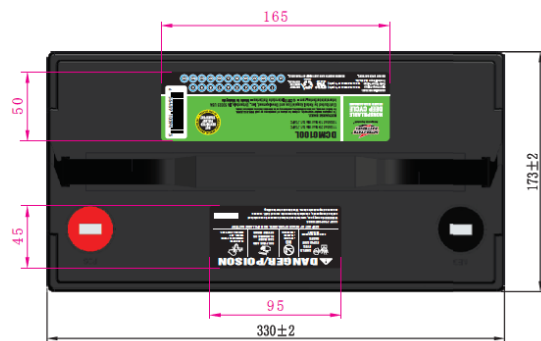
Storage: 50° to 77° F (10° C to 25° C)

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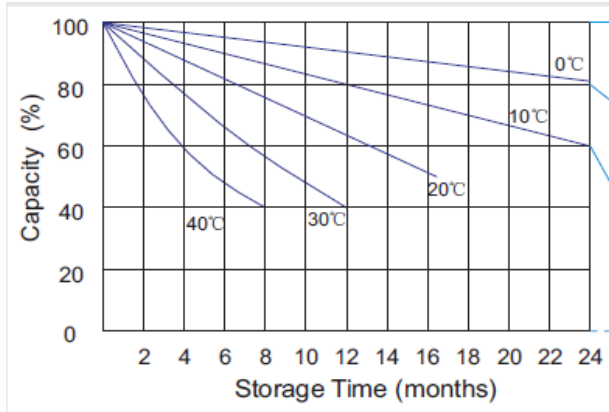


FEATURES:

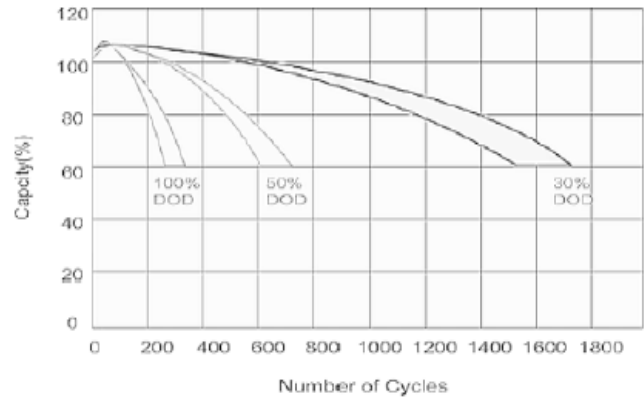
- Long life for deep discharge uses
- Ideal for applications using major capacity prior to recharging
- Depth of discharge should be between 50% & 80% and recharged as soon as possible
- Flexibility of mounting orientation
- VRLA technology to eliminate spills and over-pressurization
- Maintenance-free



Storage Characteristics



Cycle Life of Deep Cycle



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	10 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	144.90	76.70	49.40	23.90	15.80	9.35	5.20
1.80V/cell	185.20	90.50	55.40	25.80	16.90	9.90	5.25
1.75V/cell	203.50	93.90	57.90	26.20	17.40	10.00	5.30
1.70V/cell	221.80	97.80	59.70	27.00	17.80	10.10	5.39
1.67V/cell	239.40	103.10	61.80	28.10	18.30	10.31	5.46
1.60V/cell	259.90	108.90	64.00	29.00	18.90	10.41	5.49

Constant Power Discharge Characteristics: W (25°C)

F.V/Time	10 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	270.40	147.40	96.00	46.80	30.90	18.50	10.40
1.80V/cell	340.90	171.80	106.80	50.10	33.10	19.60	10.50
1.75V/cell	370.00	177.50	111.30	50.90	33.90	19.80	10.60
1.70V/cell	397.70	184.00	114.60	52.20	34.70	20.00	10.80
1.67V/cell	426.10	193.20	118.00	24.20	35.60	20.30	10.90
1.60V/cell	454.80	202.00	121.20	55.60	36.60	20.50	10.90