

CDC250-12

12V 250AH

Deep Cycle Battery



CDC250-12



Physical Specification

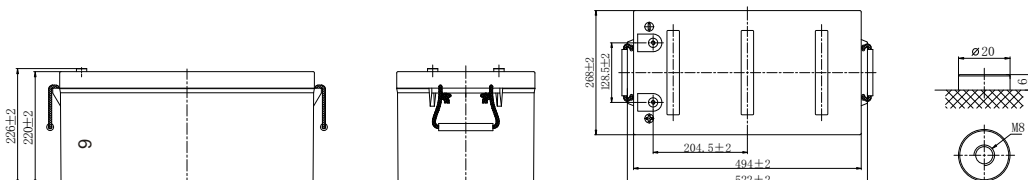
Part Number:	CDC250-12
Length:	522 ± 2 mm (20.55 inches)
Width:	268 ± 2 mm (10.55 inches)
Container Height:	220 ± 2 mm (8.66 inches)
Total Height (with terminal):	226 ± 2 mm (8.90 inches)
Approx Weight:	72.8 Kg (160.5 lbs)

Specifications

	Nominal Voltage	12V	
	Nominal Capacity (10HR)	250AH	
Terminal Option	T11 / M8		
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	(20hr, 13.1A, 1.80V/cell)	262.0 Ah	
	(10hr, 25.0A, 1.80V/cell)	250.0 Ah	
	(5hr, 45.5A, 1.75V/cell)	227.5 Ah	
	(3hr, 69.1A, 1.75V/cell)	207.3 Ah	
	(1hr, 159.4A, 1.60V/cell)	159.4 Ah	
Max Discharge Current (5s)	2500 A		
Internal Resistance	Approx. 2.5mΩ		
Discharge Characteristics	Operating Temp. Range	Discharge: -15°C~50°C (5°F~122°F)	
		Charge: 0°C~40°C (32°F~104°F)	
		Storage: -15°C~40°C (5°F~104°F)	
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
	Cycle Use	Initial Charging Current less than 75.0A. Voltage 14.4V~15V at 25°C (77°F) Temp. Coefficient -30mV/°C	
	Self Discharge	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
	Capacity affected by Temperature	40°C (104°F)	103%
		25°C (77°F)	100%
0°C (32°F)		86%	
Design Floating Life at 20°C	20+ Years		
Self Discharge	Canbat deep cycle batteries may be stored for up to 6 months at 25°C (77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 2%		

Dimensions

T11 / M8 Terminal



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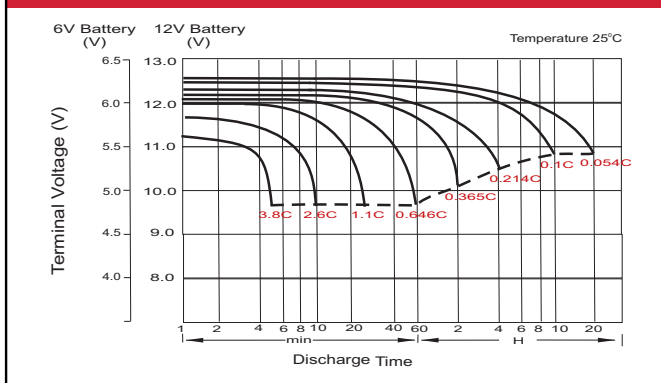
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	362.5	320.7	252.2	225.5	164.9	139.7	101.2	85.1	62.4	49.0	42.5	37.5	28.8	23.9	12.7
1.80V/cell	411.4	363.4	285.1	245.5	174.7	144.7	104.7	87.9	67.8	52.3	44.7	40.3	30.3	25.0	13.1
1.75V/cell	446.2	393.4	307.8	250.5	181.0	151.8	110.0	92.5	69.1	53.3	45.5	40.6	30.5	25.3	13.3
1.70V/cell	475.7	417.8	326.4	255.5	184.6	154.8	112.2	94.4	70.4	54.2	46.3	40.8	30.9	25.5	13.4
1.67V/cell	490.8	430.0	335.3	259.3	187.3	157.1	113.9	95.7	71.1	55.0	47.2	41.0	31.4	25.8	13.6
1.60V/cell	507.6	443.4	343.9	263.0	190.1	159.4	115.5	97.1	71.7	55.7	47.9	41.3	31.8	26.1	13.7

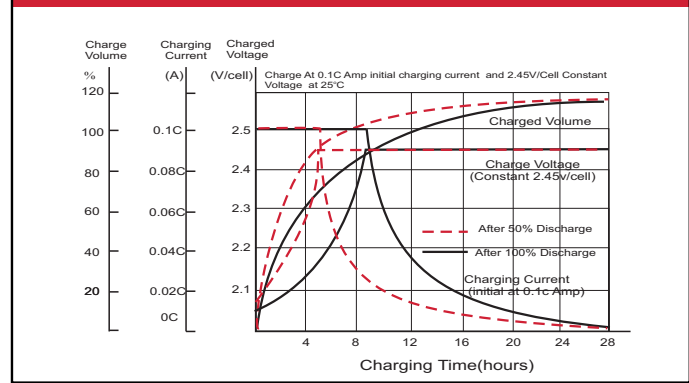
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	668.0	607.2	479.7	430.9	317.0	270.1	196.3	165.5	122.0	96.1	83.7	74.0	57.2	47.5	25.2
1.80V/cell	747.2	679.2	536.5	465.4	333.7	278.3	202.0	170.1	131.8	102.2	87.7	79.2	60.0	49.6	26.1
1.75V/cell	797.5	724.9	572.6	471.3	343.7	290.7	211.4	178.3	134.0	103.7	88.9	79.6	60.1	50.1	26.3
1.70V/cell	838.4	762.0	602.0	476.7	348.1	294.9	214.6	181.2	136.1	105.2	90.1	79.9	61.0	50.5	26.6
1.67V/cell	852.0	774.4	611.8	480.1	351.3	297.6	216.7	183.0	136.8	106.4	91.7	80.0	61.7	51.1	26.9
1.60V/cell	863.9	785.3	620.4	482.1	353.0	299.8	218.4	184.5	137.3	107.2	92.6	80.3	62.4	51.6	27.1

Discharge Characteristics



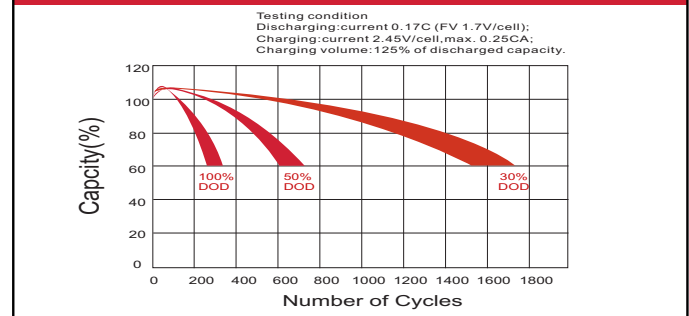
Float Charging Characteristics



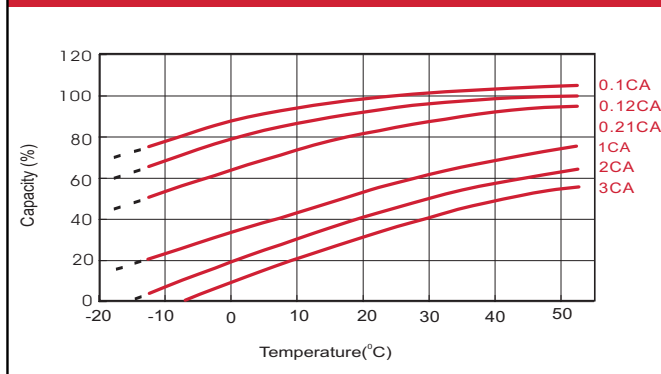
Deep Cycle Batteries

Sealed lead acid batteries are engineered to provide reliable power in a compact design. They are spill-proof and require zero maintenance, as adding water is never necessary. The acid in the battery is suspended in a glass mat separator, which makes the cells leak-proof during normal battery operation. Our batteries are proudly designed in Canada with quality and performance in mind, offering one of the highest cycle life among other sealed lead acid battery brands. Canbat AGM batteries are manufactured with pure lead to ensure a low self-discharge rate of less than 2%, meaning stored batteries are only required a recharge once every six months. The series also features an outer container made from ABS material.

Cycle Life Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



Capacity Based on Storage Time

