

CDC40-12

12V 40AH

Deep Cycle Battery



CDC40-12



Physical Specification

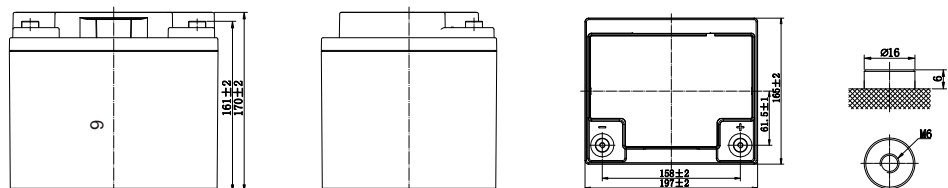
Part Number:	CDC40-12
Length:	197 ± 2 mm (7.76 inches)
Width:	165 ± 2 mm (6.50 inches)
Container Height:	170 ± 2 mm (6.69 inches)
Total Height (with terminal):	170 ± 2 mm (6.69 inches)
Approx Weight:	14.5 Kg (31.97 lbs)

Specifications

	Nominal Voltage	12V	
	Nominal Capacity (10HR)	40AH	
Terminal Option	M6		
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	(20hr, 2.39A, 1.80V/cell)	42.0 Ah	
	(10hr, 4.50A, 1.80V/cell)	40.0 Ah	
	(5hr, 7.88A, 1.75V/cell)	36.4 Ah	
	(3hr, 11.9A, 1.75V/cell)	33.3 Ah	
	(1hr, 28.2A, 1.60V/cell)	25.5 Ah	
Max Discharge Current (5s)	400 A		
Internal Resistance	Approx. 9.0mΩ		
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 12.0A. 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

T6 / M6 Terminal



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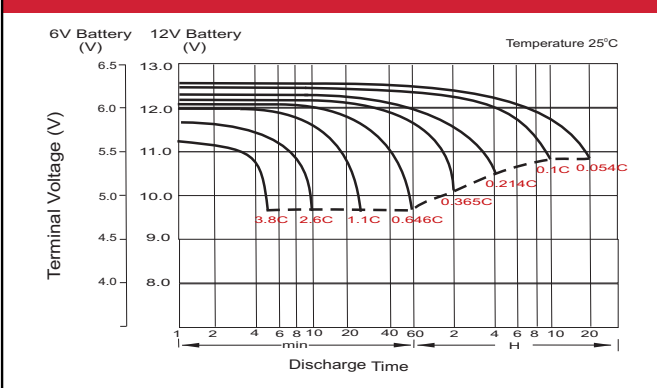
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.2	59.2	51.3	40.3	36.1	26.4	22.3	16.2	13.6	9.99	7.84	6.80	5.99	4.61	3.82	2.03
1.80V/cell	94.6	67.2	58.1	45.6	39.3	28.0	23.1	16.7	14.1	10.8	8.36	7.15	6.44	4.85	4.00	2.10
1.75V/cell	102.8	72.8	62.9	49.2	40.1	29.0	24.3	17.6	14.8	11.1	8.52	7.28	6.49	4.88	4.04	2.12
1.70V/cell	109.9	77.7	66.9	52.2	40.9	29.5	24.8	18.0	15.1	11.3	8.67	7.40	6.52	4.95	4.08	2.14
1.67V/cell	113.7	80.1	68.8	53.6	41.5	30.0	25.1	18.2	15.3	11.4	8.80	7.55	6.55	5.02	4.13	2.17
1.60V/cell	117.8	82.9	70.9	55.0	42.1	30.4	25.5	18.5	15.5	11.5	8.91	7.66	6.60	5.09	4.18	2.19

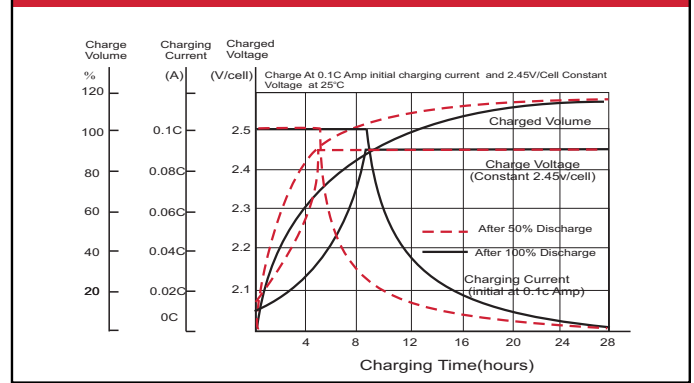
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	155.4	111.3	97.1	76.7	70.3	50.7	44.1	32.0	27.0	19.9	15.7	13.7	11.8	9.33	7.75	4.12
1.80V/cell	173.9	124.5	108.7	85.8	75.9	53.4	45.4	33.0	27.8	21.5	16.7	14.3	12.7	9.79	8.10	4.26
1.75V/cell	185.6	132.9	116.0	91.6	76.9	55.0	47.4	34.5	29.1	21.9	16.9	14.5	12.7	9.82	8.17	4.30
1.70V/cell	195.1	139.7	121.9	96.3	77.8	55.7	48.1	35.0	29.6	22.2	17.2	14.7	12.8	10.0	8.25	4.34
1.67V/cell	198.3	142.0	123.9	97.9	78.3	56.2	48.6	35.4	29.9	22.3	17.4	15.0	12.8	10.1	8.34	4.39
1.60V/cell	201.0	144.0	125.6	99.3	78.7	56.5	48.9	35.6	30.1	22.4	17.5	15.1	12.9	10.2	8.42	4.43

Discharge Characteristics



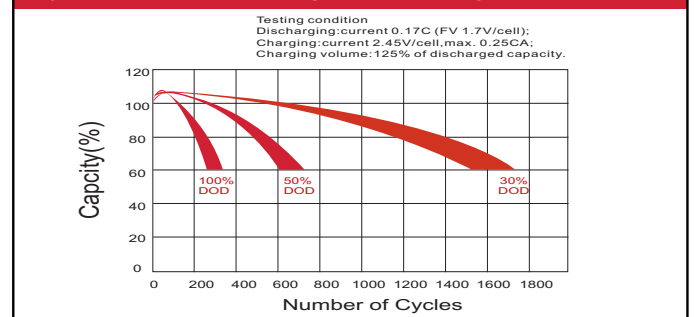
Float Charging Characteristics



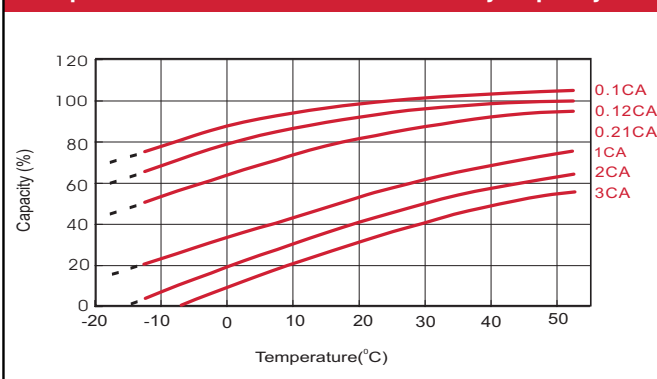
Deep Cycle Batteries

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

