Century

Batteries that last and last

Deep Cycle *GEL* Batteries

C12-40DG (12V37Ah)

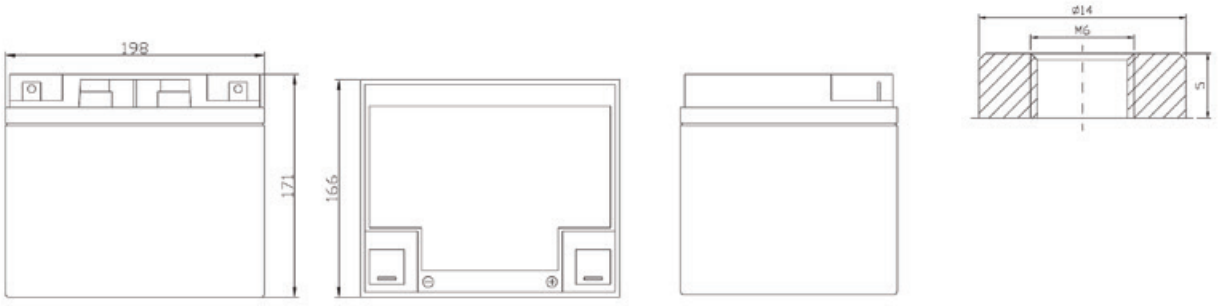
Century Deep Cycle Gel Batteries are specially designed to provide long lasting, dependable deep cycle power under extreme operating conditions.

The Century Gel Deep Cycle Range incorporates advanced Gel electrolyte technology which holds the battery plates in an immobilized gel. Specialist hard wearing internal components and strong grid designs combine to provide excellent vibration resistance, superior deep cycle performance and repeated deep discharge and recharge capabilities. They are ideal for use in recreational vehicles and accessories, electric powered vehicles, mobility scooters, wheel chairs and marine applications.

Product Specification

Cells	6	**Weight**	Approx. 13.2 kg
Voltage	12	**Max. Discharge Current**	400 A (5 sec)
Capacity	37Ah@20hr-rate to 1.75V per cell @ 25ºC	**Internal Resistance**	Approx. 9.0mΩ
Operating Temperature Range	Discharge:-40ºC~60ºC Charge: -20ºC~50ºC Storage: -40ºC~60ºC	**Terminal**	M6 Insert
		Container Material	A.B.S. (UL94-HB)
Normal Operating Temperature Range	25ºC ± 5ºC	**Recommended Max. Charging - Current Limit**	8A
Float Charging Voltage	13.6 to 13.8 VDC/unit Average at 25ºC	**Equalisation & Cycle Service**	14.2 to 14.4VDC/unit Average at 25ºC
Self Discharge	Century GEL batteries can be stored for more than 6 months at 25ºC. Self-discharge rate less than 3% per month at 25ºC. Please charge batteries before using.	**Note: Warranty void if mounted under bonnet.**	

Unit: mm **Dimension:** 198 (L) x 166 (W) x 171 (H) x 171 (TH)



Charging Procedures (12V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25ºC	14.3	14.2~14.4	0.2C
Standby	25ºC	13.7	13.6~13.8	0.2C

Discharge Current VS Discharge Voltage

Final Discharge Voltage V/Cell	1.75V	1.70V	1.60V
Discharge Current	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C

Charge the batteries at least once a month every six months, if they are stored at 25ºC	
Charging Method	
Constant Voltage	-0.2Cx2h+2.4~2.45V/Cellx24h,Max.Current 0.3CA

ALL MENTIONED VALUES ARE AVERAGE VALUES.

C12-40DG (12V37Ah)

Constant Current Discharge Characteristics: A (25°C)

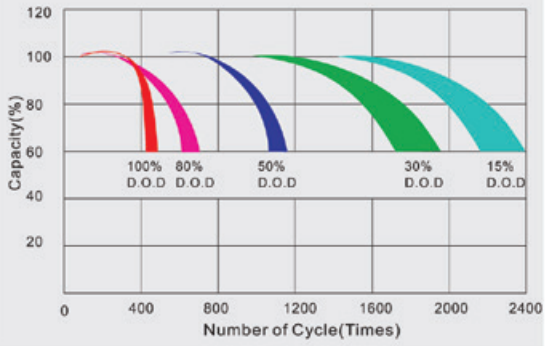
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	126.2	90.40	65.77	41.29	23.34	13.32	9.37	7.76	6.53	4.51	3.81	2.02
10.0V	122.8	86.01	64.43	40.61	23.23	13.22	9.34	7.72	6.49	4.47	3.77	1.98
10.2V	115.7	82.98	63.41	40.25	23.01	13.12	9.26	7.68	6.45	4.43	3.74	1.94
10.5V	103.9	76.57	60.38	39.24	22.80	13.02	9.23	7.61	6.38	4.40	3.70	1.91
10.8V	93.77	69.82	55.66	37.52	22.26	12.79	8.98	7.43	6.26	4.32	3.66	1.87
11.1V	81.63	62.40	49.92	35.15	21.15	12.22	8.58	7.07	5.99	4.14	3.55	1.76

Constant Power Discharge Characteristics: W (25°C)

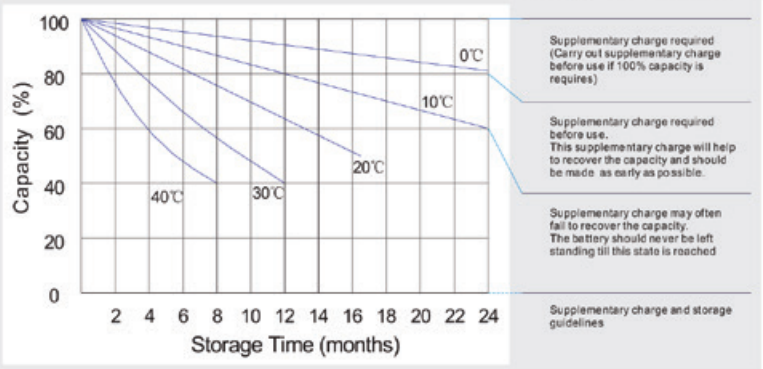
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	1314.6	961.3	707.8	466.0	266.9	153.3	108.1	89.62	75.61	52.31	42.86	22.64
10.0V	1287.7	918.1	693.1	460.1	265.6	152.7	107.9	89.40	75.14	52.09	42.42	22.42
10.2V	1215.6	887.6	683.7	454.8	263.7	151.3	107.3	88.97	74.91	51.65	42.20	22.20
10.5V	1094.6	820.1	651.9	444.4	261.1	149.9	106.6	88.32	74.22	51.21	41.76	21.98
10.8V	984.61	744.6	599.0	424.2	254.6	147.7	104.0	85.95	73.07	50.11	41.32	21.76
11.1V	849.92	661.3	534.8	397.5	241.3	140.8	98.9	81.86	69.38	48.35	40.00	20.88

All mentioned values are average values.

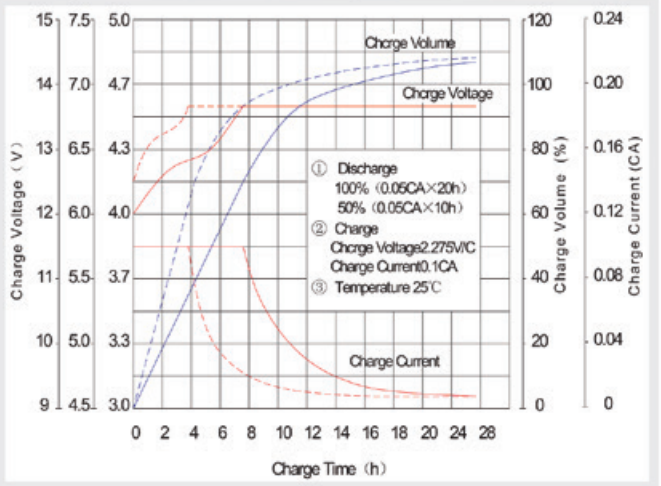
Life characteristics of cyclic use



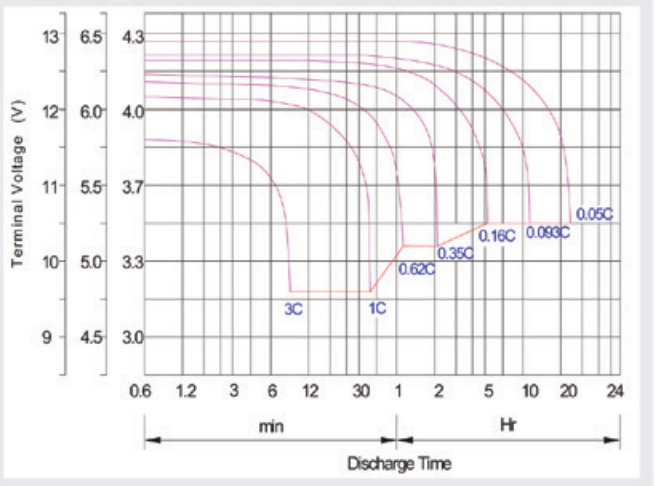
Storage characteristic



Charge characteristic curve for cyclic use



Discharge characteristic Curve



Battery Recycling Centre

Battery Disposal

This battery is 98% recyclable. Help create a cleaner planet, return your used battery to the original place of purchase or your nearest CenturyYuasa approved Battery Recycling Centre.

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For more information visit centurybatteries.com.au or call 13 22 87

ALSO AVAILABLE IN 75 AMP HOUR

See separate spec sheets

CB109-2264