



Batteries that last and last

Deep Cycle GEL Batteries

C12-100SDG (12V100Ah)



Gel Electrolyte
NO LOOSE LIQUID

Century Gel Deep Cycle Batteries

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 immobilised 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
Voltage	12
Capacity	100Ah@20hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 29.0 Kg
Max. Discharge Current	1000 A (5 sec)
Internal Resistance	Approx. 5.0mΩ
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Float charging Voltage	13.6to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging - Current Limit	20A
Equalisation and Cycle Service	14.2 to 14.4VDC/unit Average at 25°C
Self Discharge	Century GEL batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	M8 Insert
Container Material	A.B.S. (UL94-HB).

Note: Warranty void if mounted under bonnet.

Dimensions

Unit: mm



Charging Procedures (12V series)

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

Charge the batteries at least once every six months, if they are stored at 25°C

Discharge Current VS Discharge Voltage

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

Charging Method:

Constant Voltage	-0.2Cx2h +14.4~15.0Vx24h, Max. Current 0.2CA
Constant Current	-0.2Cx2h +0.1CAx12h
Fast	-0.2Cx2h +0.3CAx4.0h

ALL MENTIONED VALUES ARE AVERAGE VALUES.

Constant Current Discharge Characteristics: A (25°C)

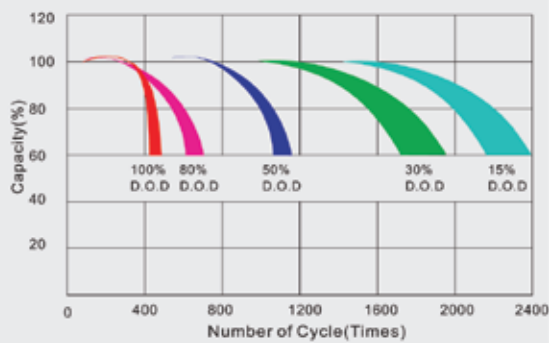
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	315.4	226.0	164.4	103.2	58.34	33.31	23.43	19.39	16.33	11.27	9.53	5.04
10.0V	306.9	215.0	161.1	101.5	58.07	33.06	23.34	19.30	16.23	11.18	9.44	4.95
10.2V	289.2	207.4	158.5	100.6	57.54	32.81	23.16	19.21	16.14	11.09	9.35	4.86
10.5V	259.7	191.4	150.9	98.11	57.00	32.56	23.07	19.03	15.94	10.99	9.25	4.76
10.8V	234.4	174.6	139.1	93.80	55.65	31.97	22.44	18.58	15.66	10.81	9.16	4.67
11.1V	204.1	156.0	124.8	87.88	52.87	30.55	21.45	17.68	14.98	10.35	8.89	4.40

Constant Power Discharge Characteristics: W (25°C)

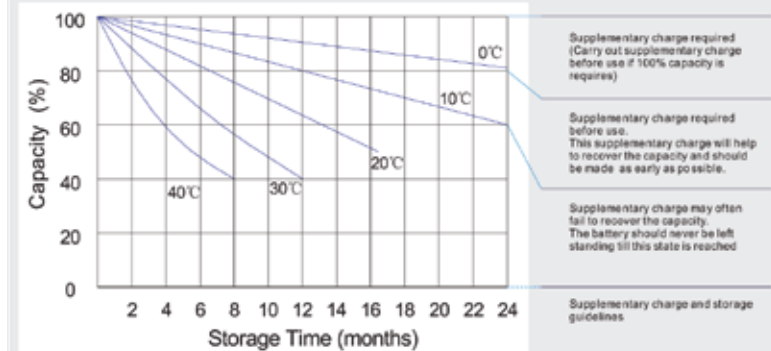
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	3286.4	2403.2	1769.4	1164.9	667.3	383.2	270.4	224.0	189.0	130.8	107.1	56.59
10.0V	3219.3	2295.4	1732.7	1150.4	664.0	381.7	269.8	223.5	187.9	130.2	106.0	56.04
10.2V	3038.9	2218.9	1709.1	1136.9	659.2	378.1	268.2	222.4	187.3	129.1	105.5	55.49
10.5V	2736.5	2050.3	1629.7	1111.0	652.7	374.6	266.6	220.8	185.6	128.0	104.4	54.94
10.8V	2461.5	1861.6	1497.4	1060.4	636.6	369.1	260.1	214.9	182.7	125.3	103.3	54.39
11.1V	2124.8	1653.3	1337.1	993.64	603.2	352.1	247.2	204.7	173.5	120.9	100.0	52.20

All mentioned values are average values.

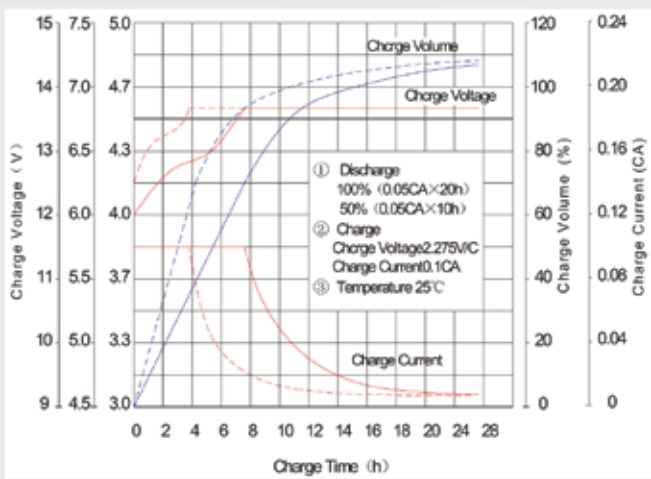
Life characteristics of cyclic use



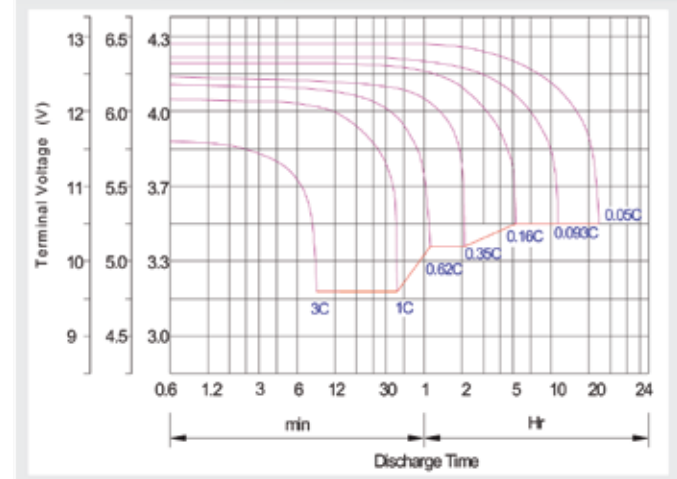
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Battery Disposal

This battery is 98% recyclable. Help create a cleaner Australia, return your used battery to the original place of purchase or your nearest CenturyYuasa approved Battery Recycling Centre. Visit recycle.mybattery.com.au or call 1300 650 702 to find the nearest centre to you.