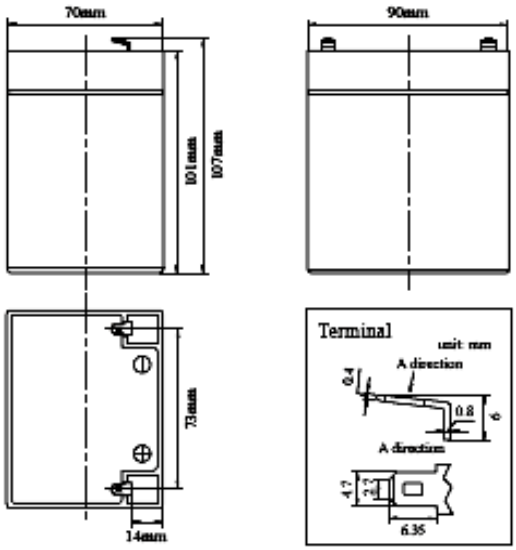
GERCH®

Lead crystal battery GE3.8-12E（12V3.8Ah）

Product Image

Product Dimensions



Characteristics

Nominal Voltage		12V
Nominal Capacity (20 hour rate)		3.8Ah
Capacity 25℃(77°F)	10 hour rate (0.364A)	3.64Ah
	5 hour rate (0.68A)	3.38Ah
	1 hour rate (2.51A)	2.51Ah
Internal Resistance	Full Charged Battery 25℃	≤34mΩ
Capacity affected by Temperature (10 hour)	40℃ (104°F)	102%
	25℃ (77°F)	100%
	-20℃ (-4°F)	82%
	-35℃ (-31°F)	65%
Self-Discharge 25℃(77°F) Capacity	after 3 month storage	90%
	after 6 month storage	80%
	after 12 month storage	62%
Charge (Constant Voltage) 25℃ (77°F)	Float	Initial Charging Current Less than 1.1A Voltage 13..6-13.8V
	Cycle	Initial Charging Current Less than 1.1A Voltage 14.4-15.0V

Packaging

Battery Dimensions	Length	90mm
	Width	70mm
	Height	101mm
	Total Height	107mm
Box Dimensions	Length	377mm
	Width	198mm
	Height	122mm
Quantity Per Box		10 pcs per box
Net weight Per Cell		1.35kg±50g
Net weight Per Box		13.5kg
Gross Weight		14.0kg

Discharge Constant Current per Cell (Amperes at 77°F25°C)

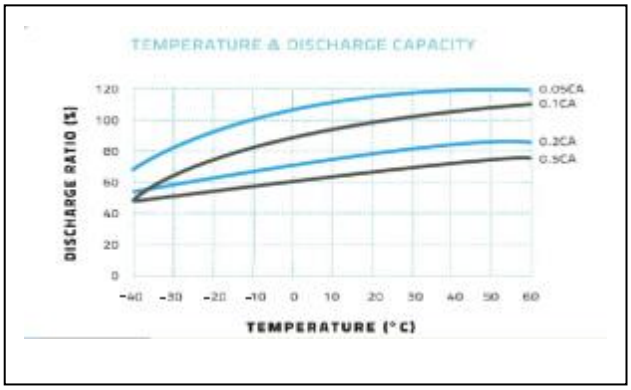
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	13.20	8.80	6.62	4.40	3.08	2.64	1.65	1.13	0.75	0.51	0.42	0.22
1.65V	12.96	8.64	6.50	4.32	3.02	2.59	1.62	1.11	0.74	0.50	0.41	0.22
1.70V	12.72	8.48	6.38	4.24	2.97	2.54	1.59	1.09	0.73	0.49	0.40	0.21
1.75V	12.48	8.32	6.26	4.16	2.91	2.50	1.56	1.07	0.71	0.48	0.40	0.21
1.80V	12.00	8.00	6.02	4.00	2.80	2.40	1.50	1.03	0.69	0.46	0.38	0.20

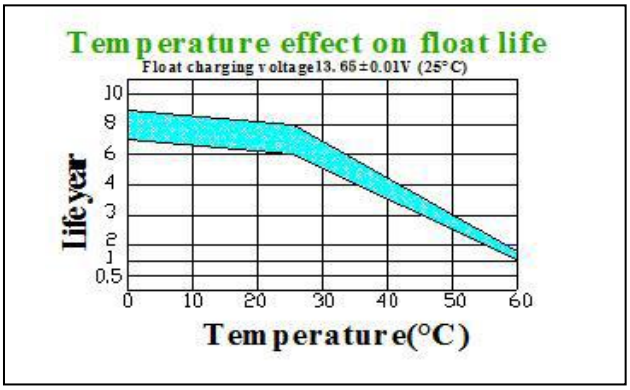
Discharge Constant Power per Cell (Watts at 77°F 25°C)

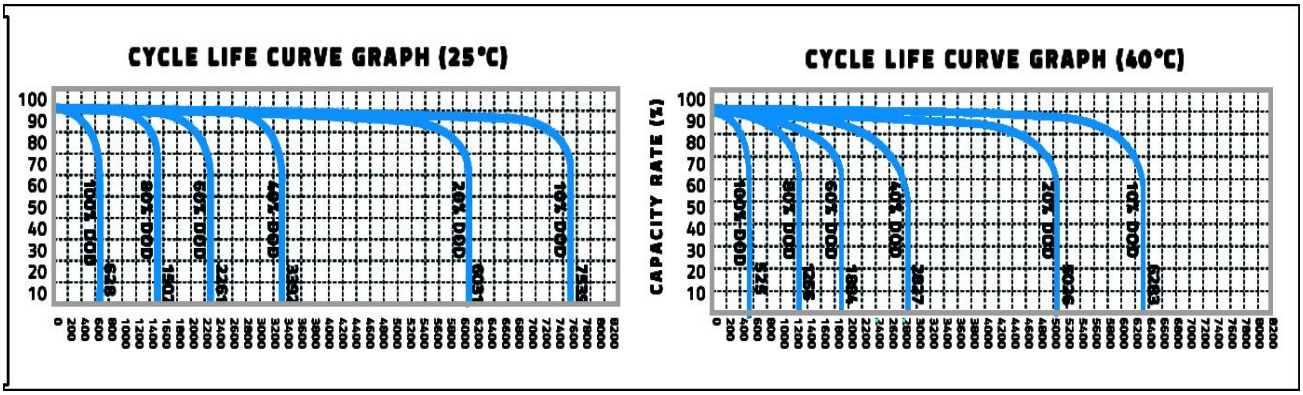
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	25.41	16.94	12.75	8.47	5.93	5.08	3.18	2.18	1.45	0.98	0.81	0.42
1.65V	24.95	16.63	12.51	8.32	5.82	4.99	3.12	2.14	1.42	0.96	0.79	0.42
1.70V	24.49	16.32	12.28	8.16	5.71	4.90	3.06	2.10	1.40	0.94	0.78	0.41
1.75V	24.02	16.02	12.05	8.01	5.61	4.80	3.00	2.06	1.37	0.92	0.76	0.40
1.80V	23.10	15.40	11.59	7.70	5.39	4.62	2.89	1.98	1.32	0.89	0.73	0.39

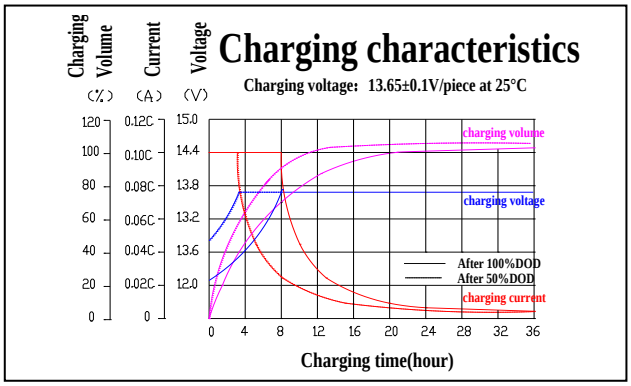
Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **US** for the latest information.

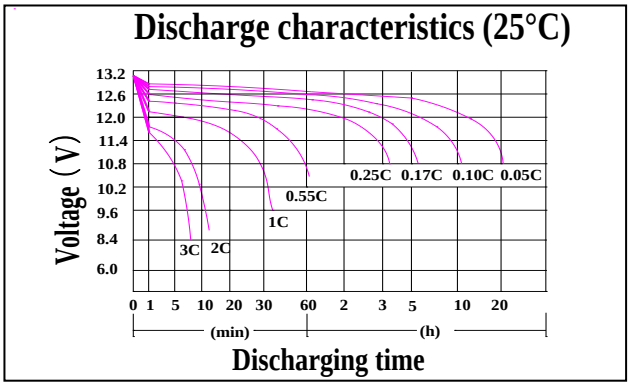
Performance Characteristics

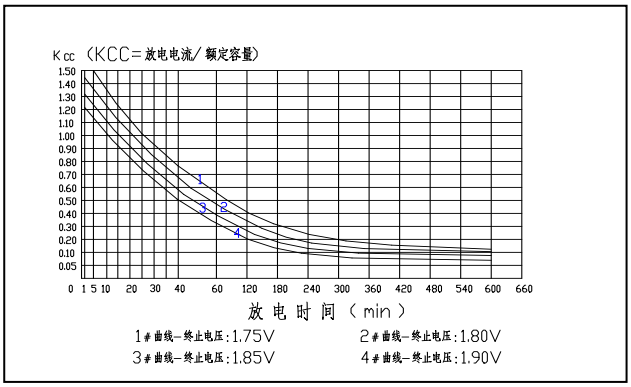


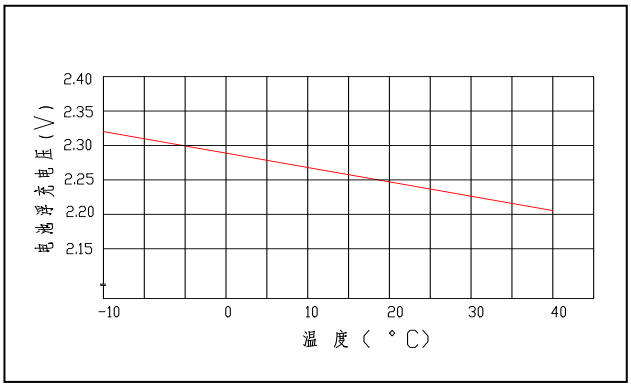












Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Si-Rubber	Copper	Fiberglass	Nano

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