DBU-GEL12200 ▶ 12V200Ah

GEL series is a battery with AGM hybrid GEL technology. It has a long service life and is suitable for standby and energy storage. Like all batteries, it can be charged, efficient, leakproof and maintenance free.

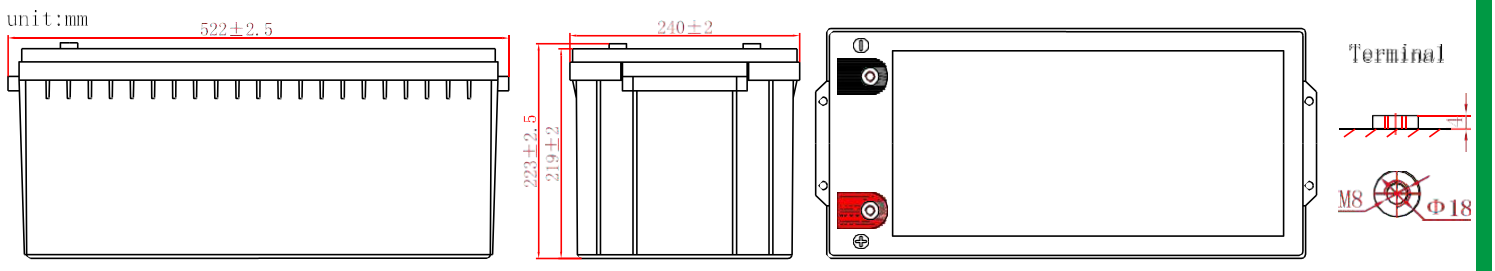
▶ Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 57 kg±3%
Maximum Discharge Current	2000A(5sec)
Internal Resistance	Approx. 3.7mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	60A
Equalization and Cycle Service	14.4 to 14.8 VDC/unit Average at 25°C (77°F)
Self- Discharge	Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Thread lead alloy recessed terminal to accept M8 bolt
Container Material	ABS (UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

▶ Dimensions:

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
223±2.5	219±2	522±2.5	240±2



Constant Current Discharge Characteristics Unit:A(25℃,77℉)

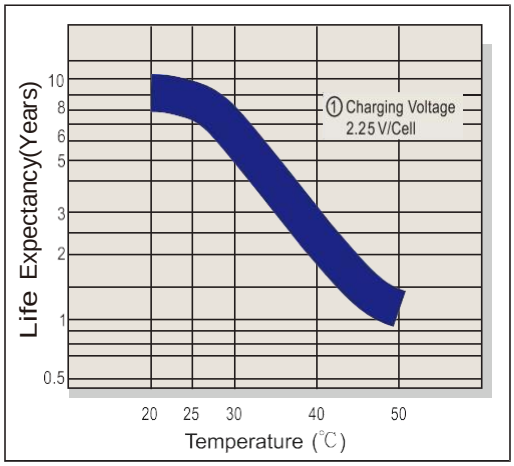
F.V/Time	15min	30min	1h	3h	5h	8h	10h	20h
1.60V	332.8	208.0	114.4	52.0	36.18	24.44	20.80	10.72
1.67V	329.6	206.0	113.4	51.5	35.84	24.22	20.60	10.60
1.70V	326.4	204.0	112.2	51.0	35.50	23.96	20.40	10.50
1.75V	323.2	202.0	111.0	50.6	35.14	23.72	20.20	10.40
1.8V	320.0	200.0	110.0	50.0	34.80	23.50	20.00	10.30
1.85V	310.4	194.0	106.8	48.6	33.76	22.78	19.40	10.02

Constant Power Discharge Characteristics Unit:W (25℃,77℉)

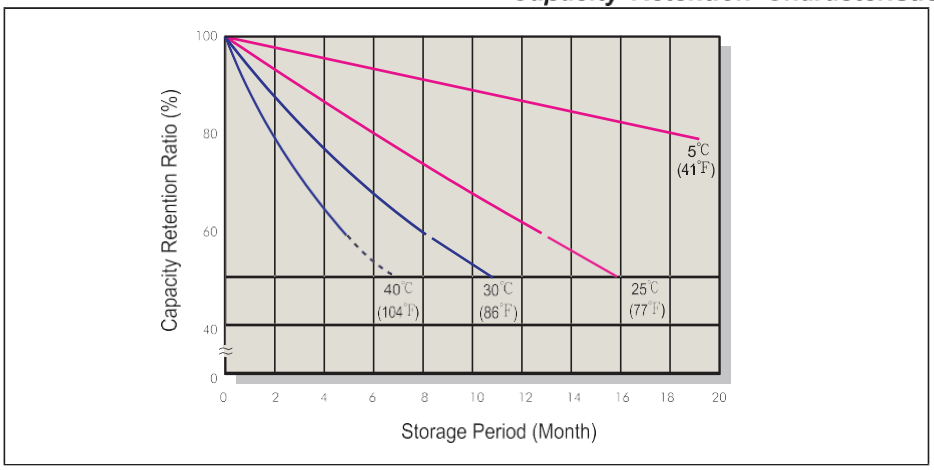
F.V/Time	15min	30min	1h	3h	5h	8h	10h	20h
1.60V	665.6	416.0	228.8	104.0	72.36	48.88	41.60	21.44
1.67V	659.2	412.0	226.8	103.0	71.68	48.44	41.20	21.20
1.7V	652.8	408.0	224.4	102.0	71.00	47.92	40.80	21.00
1.75V	646.4	404.0	222.0	101.2	70.28	47.44	40.40	20.80
1.8V	640.0	400.0	220.0	100.0	69.60	47.00	40.00	20.60
1.85V	620.8	388.0	213.6	97.2	67.52	45.56	38.80	20.04

DBU-GEL12200 12V200Ah

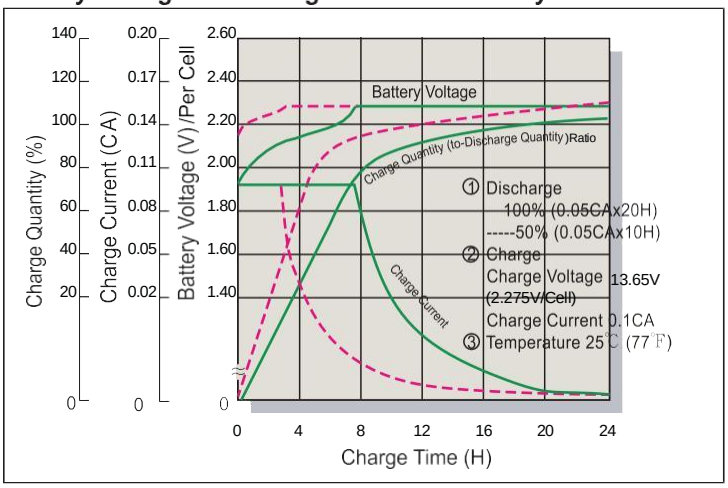
Trickle(or Float)Design Life



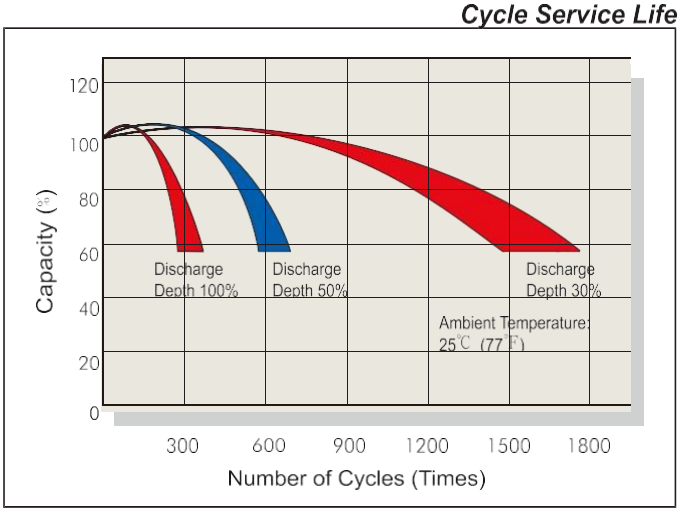
Capacity Retention Characteristic



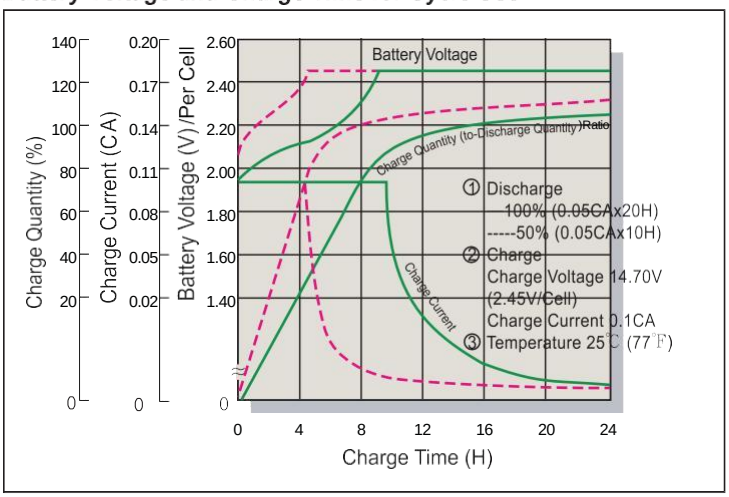
Battery Voltage and Charge Time for Standby Use



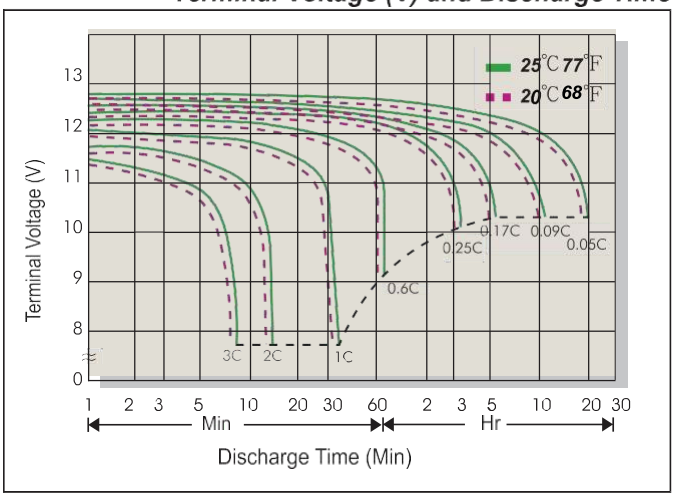
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25℃(77℉)	2.45	2.40~2.50	0.25C
Standby	25℃(77℉)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40℃	102%
25℃	100%
0℃	85%
-15℃	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%