

DATASHEET

GHL 200-12

12V 200AH



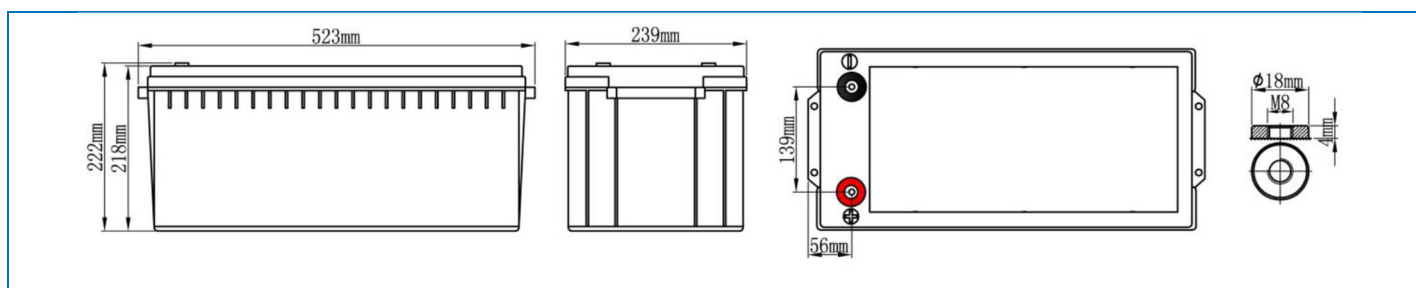
GEL SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±3mm				Weight ±2%	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
12V	200AH	523mm	239mm	218mm	222mm	59,8kg	2.000A	≈3.8 mΩ	M8	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (10.0A)	212.0AH
10 hour rate (20.0A)	200.0AH
5 hour rate (34.0A)	170.0AH
3 hour rate (50.0A)	150.0AH
1 hour rate (120.0A)	123.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

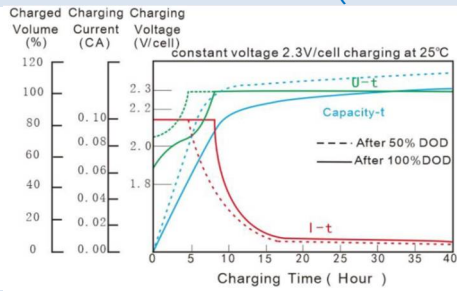
Cycle Application
1. Limit initial current less than 40.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 1.2A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 40.0A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

Nominal Operating Temp. Range
25±3°C (77±5°F)

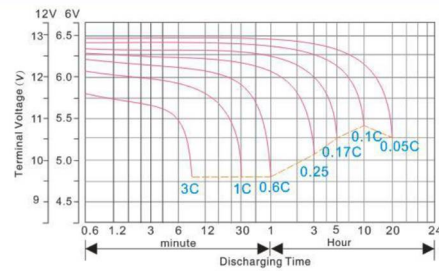
Operating Temperature
Wide operating temperature range from -20°C~55°C

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

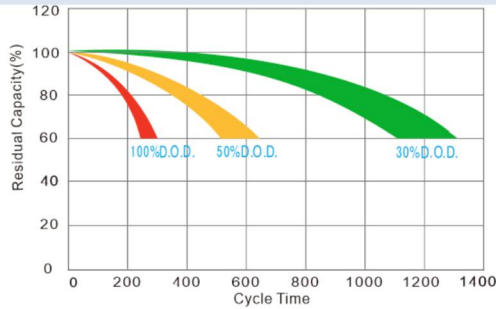
CHARGE CHARACTERISTICS (25°C/77°F)



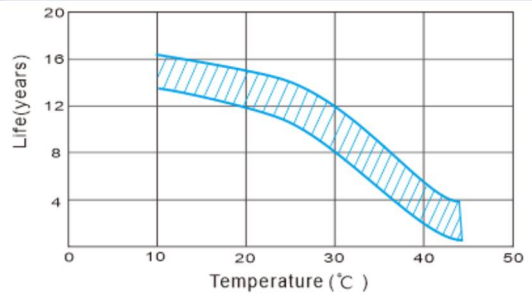
DISCHARGE CHARACTERISTIC (25°C/77°F)



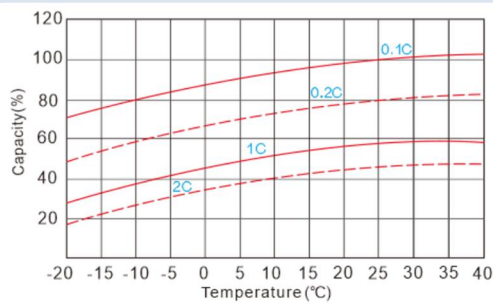
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



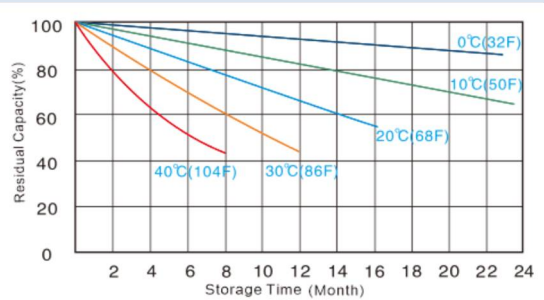
TEMPERATURE VS FLOAT LIFE



CAPACITY CURVE AT DIFFERENT TEMPERATURE



SELF DISCHARGE CHARACTERISTICS



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

End Voltage (V)	10 min	15 min	30 min	45 min	1 h	1,5 h	2 h	3 h	5 h	8 h	10 h	20 h
9.6V	467	369	208	178	123	99	84	53	36.5	24.6	20.8	10.9
9.9V	444	351	198	173	120	97	82	51	35.6	24.2	20.6	10.8
10.2V	424	335	188	167	118	95	80	50	34.8	23.7	20.4	10.7
10.5V	404	318	179	161	115	92	78	49	34.0	23.2	20.2	10.6
10.8V	384	304	171	155	112	90	76	48	33.1	22.8	20.0	10.5

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

End Voltage (V)	10 min	15 min	30 min	45 min	1 h	1,5 h	2 h	3 h	5 h	8 h	10 h	20 h
9.6V	4616	4027	2673	1873	1574	1171	876	653	422	319	247	133
9.9V	4397	3835	2545	1810	1536	1143	855	638	412	313	245	132
10.2V	4187	3653	2424	1749	1498	1115	834	622	401	307	242	130
10.5V	3988	3478	2309	1690	1462	1088	814	607	392	301	240	129
10.8V	3798	3314	2199	1633	1426	1061	794	592	382	295	238	128