

DATASHEET

GHL 200-12S

12V 200AH



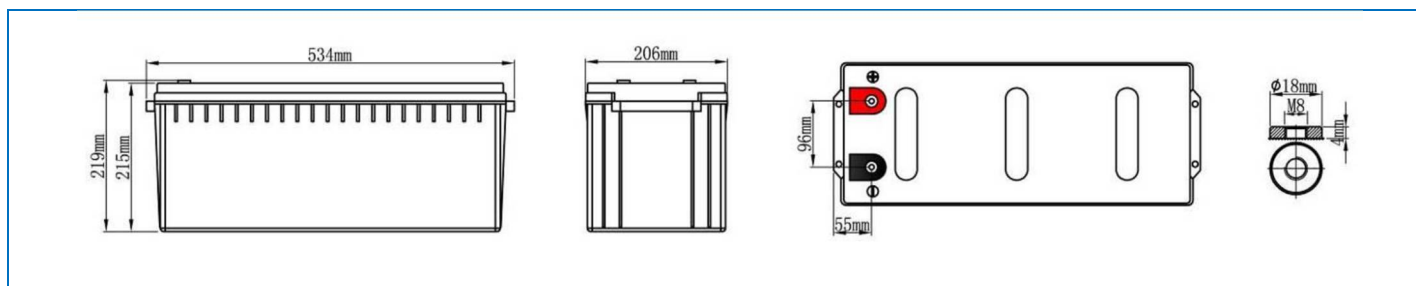
GEL SEALED VRLA BATTERY

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	216AH	534mm	206mm	215mm	219mm	58,6kg	1.800A	≈2.7 mΩ	M8	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (10.25A)	216.0AH
10 hour rate (20.5A)	205.0AH
5 hour rate (34.85A)	174.5AH
3 hour rate (51.25A)	153.9AH
1 hour rate (112.75A)	113.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°F)	100%
0°C (32°F)	86%

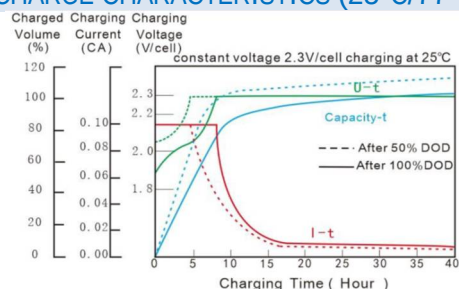
Cycle Application
1. Limit initial current less than 41.0A.
2. Charge until battery voltage (under charge) reaches 14.5V to 14.9V at 25°C(77°F).
3. Hold at 14.5V to 14.9V until current drop to under 1.23A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 41.0A 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)

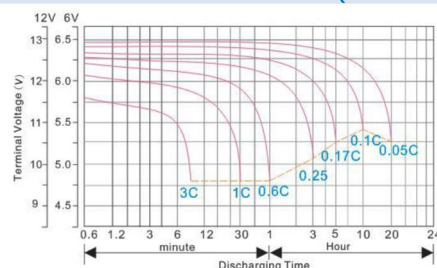
Operating Temperature
Wide operating temperature range from -20°C ~ 55°C

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

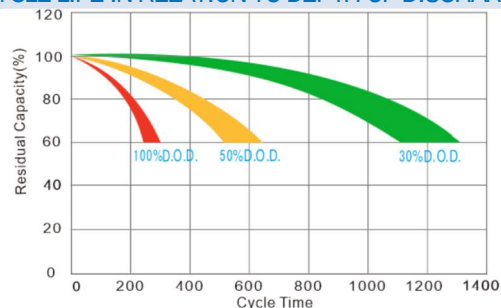
CHARGE CHARACTERISTICS (25°C/77°F)



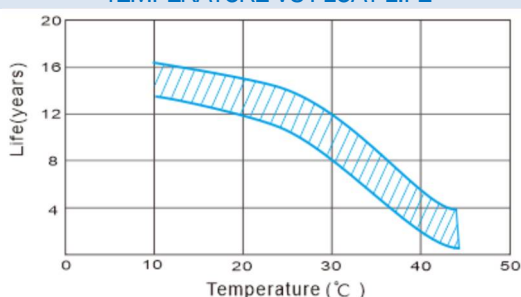
DISCHARGE CHARACTERISTIC (25°C/77°F)



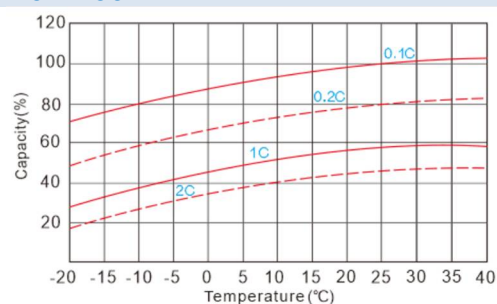
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



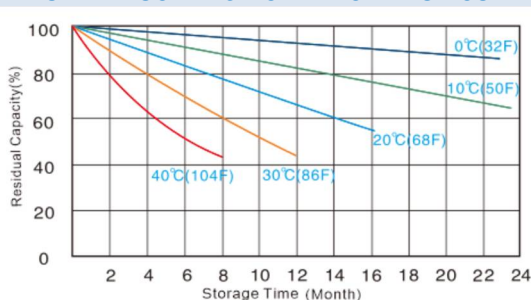
TEMPERATURE VS FLOAT LIFE



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	355	289	186	148	113	89	75	52.5	36.9	24.7	21.0	11.1
9.9V	339	276	178	142	112	88	74	52.0	36.1	24.2	20.9	11.0
10.2V	322	263	169	137	110	87	73	51.3	35.3	23.7	20.8	10.9
10.5V	306	249	161	131	108	86	71	49.9	34.9	23.0	20.7	10.8
10.8V	294	240	154	125	106	85	70	48.2	33.6	22.6	20.5	10.7

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	4167	3389	2353	1818	1379	1069	826	592	397	289	233	124
9.9V	3968	3227	2242	1745	1337	1048	814	585	391	285	231	123
10.2V	3779	3073	2134	1663	1322	1027	802	574	385	280	229	122
10.5V	3600	2924	2033	1584	1291	1001	783	563	376	277	226	120
10.8V	3429	2787	1936	1508	1259	975	764	551	366	271	224	117



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