

DATASHEET

GHL 55-12

12V 55AH



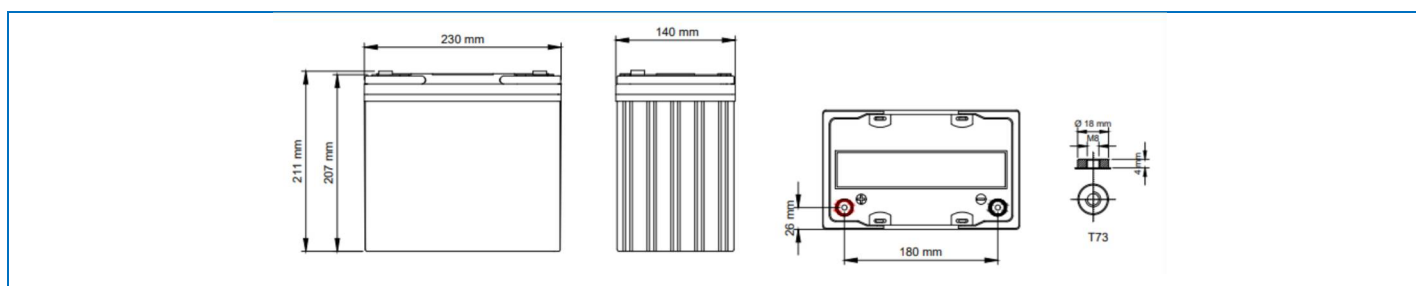
GEL SEALED VRLA BATTERY

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	55AH	230mm	138mm	211mm	216mm	16,36kg	660A	≈7.2 mΩ	M6	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (2.75A)	57.8AH
10 hour rate (5.5A)	55.0AH
5 hour rate (9.35A)	46.8AH
3 hour rate (13.75A)	41.3AH
1 hour rate (33.0A)	34.7AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

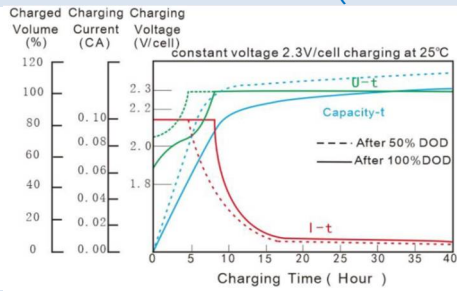
Nominal Operating Temp. Range
25±3°C (77±5°F)

Cycle Application
1. Limit initial current less than 11.0A.
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 0.33A 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 11.0A 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.

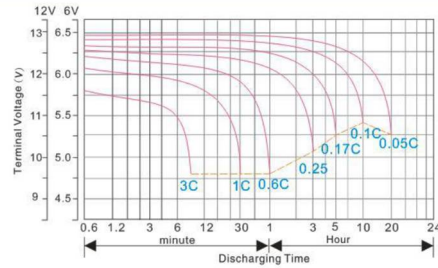
Operating Temperature
Wide operating temperature range from -20°C~55°C

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

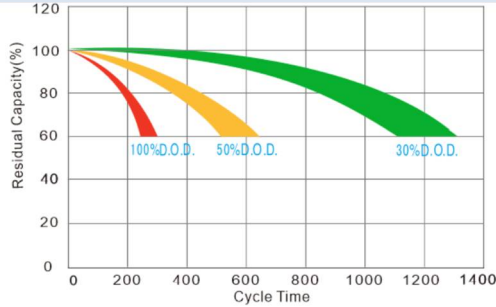
CHARGE CHARACTERISTICS (25°C/77°F)



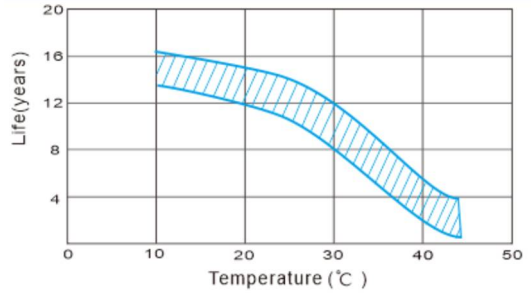
DISCHARGE CHARACTERISTIC (25°C/77°F)



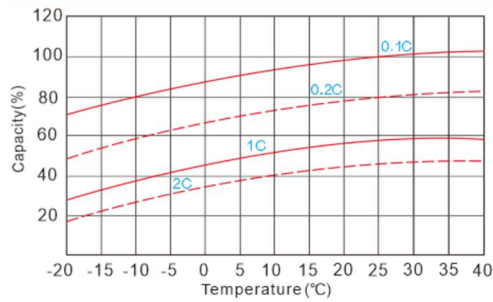
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



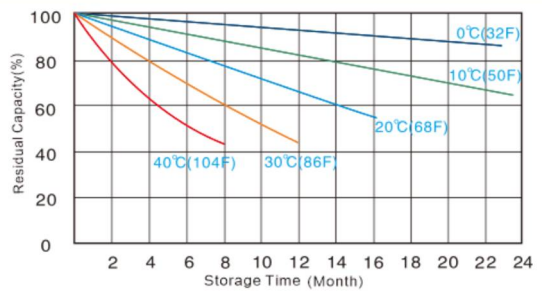
TEMPERATURE VS FLOAT LIFE



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	134	106	59	51	34.7	27.5	23.3	14.3	9.96	6.82	5.73	2.98
9.9V	128	101	57	50	34.1	27.0	22.7	14.1	9.74	6.71	5.67	2.95
10.2V	122	96	54	48	33.0	26.4	22.1	13.8	9.52	6.60	5.61	2.92
10.5V	116	91	51	46	32.5	25.9	21.6	13.5	9.35	6.44	5.56	2.89
10.8V	110	87	49	45	31.9	25.3	21.1	13.2	9.08	6.33	5.50	2.86

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	1493	1237	766	536	446	326	244	182	117	89	68.7	36.9
9.9V	1422	1178	729	518	436	317	238	177	114	87	68.0	36.6
10.2V	1354	1122	694	501	425	310	232	173	112	85	67.3	36.2
10.5V	1290	1069	661	484	414	302	226	168	109	84	66.7	35.8
10.8V	1228	1018	630	468	404	295	221	164	106	82	66.0	35.5