



DATASHEET

GHL 35-12

12V 35AH

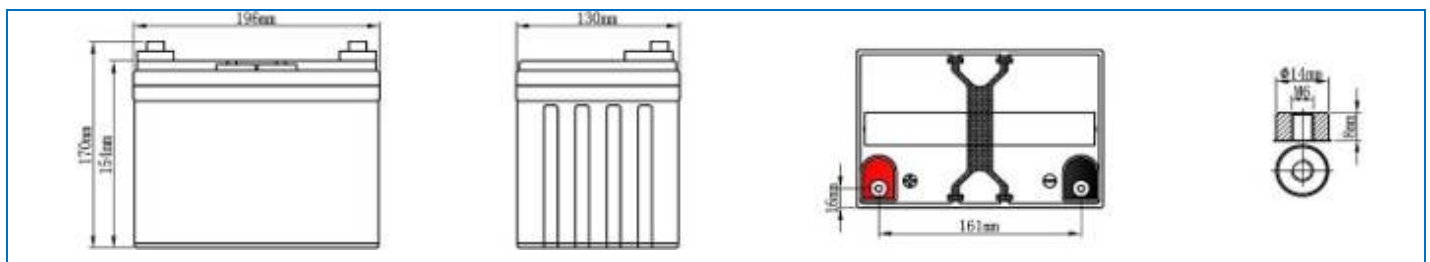
GEL SEALED VRLA BATTERY

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	35AH	196mm	130mm	154mm	170mm	10,8kg	-	≈8.4 mΩ	M6	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (1.75A)	35.80AH
10 hour rate (3.5A)	35.0AH
5 hour rate (5.95A)	29.75AH
3 hour rate (35A)	15.75AH
1 hour rate (105A)	12.25AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

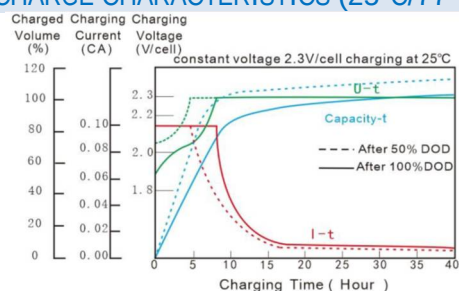
Nominal Operating Temp. Range
25 ± 3°C (77 ± 5°F)

Cycle Application
1. Limit initial current less than 7A.
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 0.21A 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 7A 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.

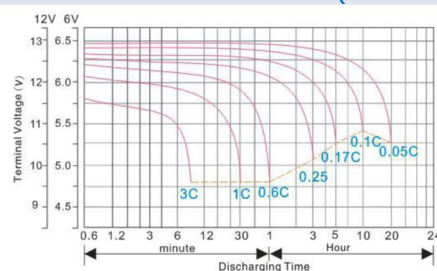
Operating Temperature
Wide operating temperature range from -20°C ~ 55°C

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

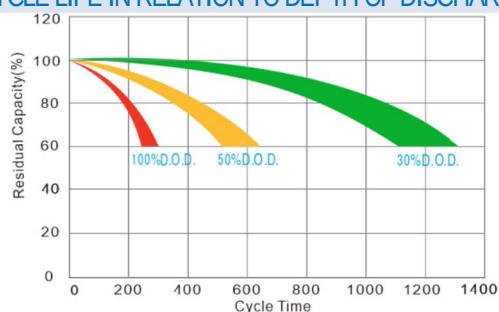
CHARGE CHARACTERISTICS (25°C/77°F)



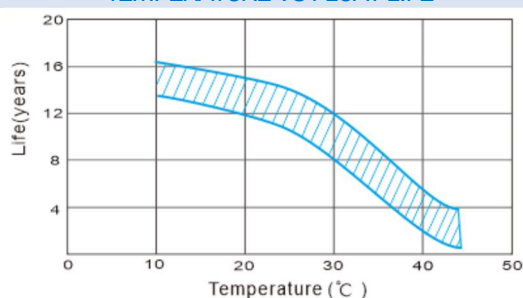
DISCHARGE CHARACTERISTIC (25°C/77°F)



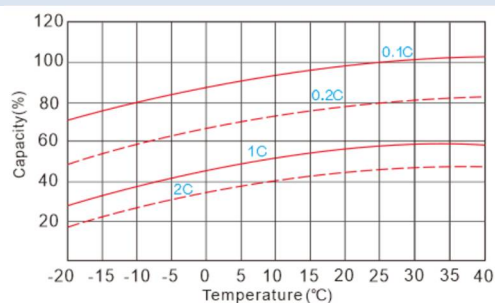
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



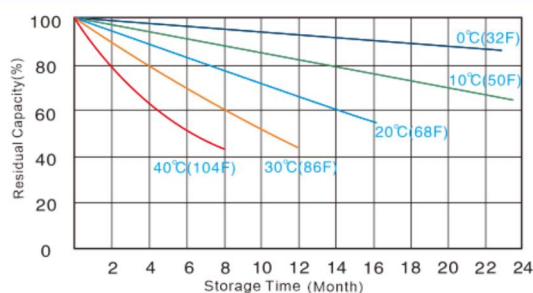
TEMPERATURE VS FLOAT LIFE



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	88	71	35.1	25.4	19.4	16.1	12.1	9.28	6.12	4.06	3.61	1.84
9.9V	85	69	34.5	24.8	19.2	15.8	11.7	9.07	6.10	4.03	3.57	1.83
10.2V	83	67	33.6	24.4	19.0	15.4	11.1	8.85	6.03	4.00	3.55	1.81
10.5V	79	64	32.5	23.5	18.2	14.9	10.6	8.55	5.95	3.96	3.52	1.79
10.8V	75	61	31.3	22.5	17.6	14.2	10.1	8.33	5.80	3.92	3.50	1.77

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	984	800	404	276	211	172	123	100	69	44.7	39.7	20.4
9.9V	952	774	393	273	209	170	121	98	68	44.5	39.2	20.2
10.2V	921	748	378	270	207	168	119	94	67	44.0	39.0	19.8
10.5V	879	715	361	261	200	161	116	92	66	43.4	38.6	19.5
10.8V	838	681	345	255	194	157	111	90	65	42.7	38.0	19.3



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