



## DATASHEET

# GHL 120-12

### 12V 120AH

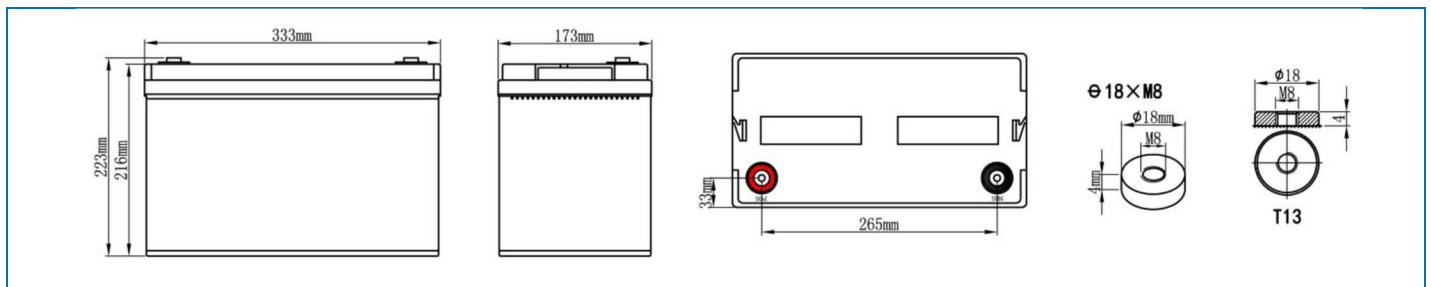
**GEL SEALED VRLA BATTERY**

**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	120AH	333mm	173mm	216mm	223mm	31,8kg	1.350A	≈4.3 mΩ	M8	ABS UL94-V0



## CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (5.75A)	120.0AH
10 hour rate (11.5A)	115.0AH
5 hour rate (19.55A)	97.75AH
3 hour rate (28.75A)	86.3AH
1 hour rate (69.0A)	69.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

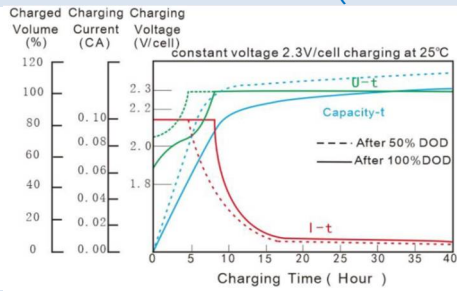
Nominal Operating Temp. Range
25±3°C (77±5°F)

Cycle Application
1. Limit initial current less than 28.75A.
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 0.69A 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 28.75A 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.

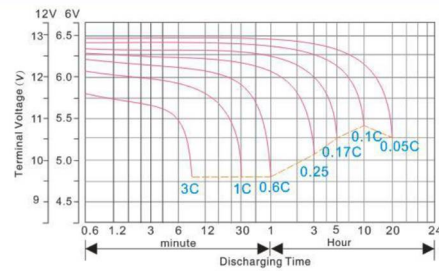
Operating Temperature
Wide operating temperature range from -20°C~55°C

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

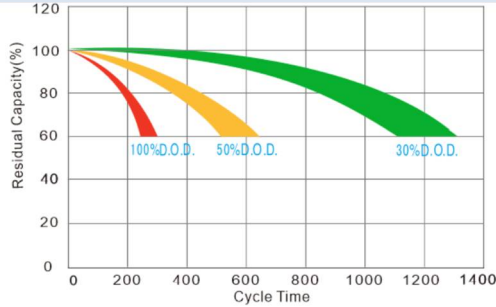
## CHARGE CHARACTERISTICS (25°C/77°F)



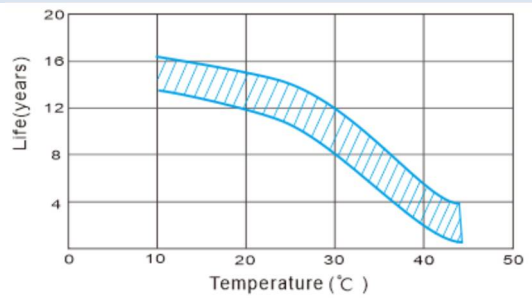
## DISCHARGE CHARACTERISTIC (25°C/77°F)



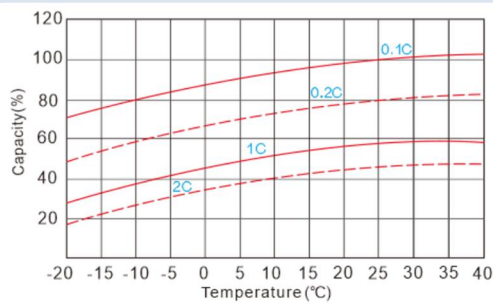
## CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



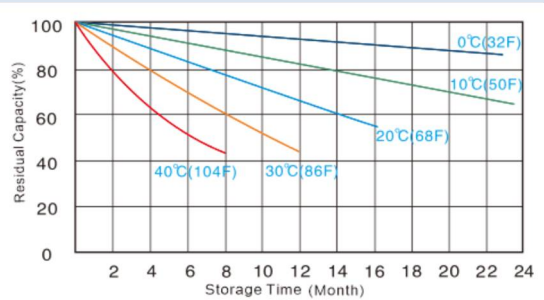
## TEMPERATURE VS FLOAT LIFE



## 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	279	220	123	107	72.5	57.5	48.6	29.9	20.8	14.2	11.9	6.22
9.9V	267	210	118	103.5	71.3	56.4	47.4	29.5	20.4	14.0	11.8	6.16
10.2V	254	200	113	100.1	69.0	55.2	46.2	28.8	19.9	13.8	11.7	6.10
10.5V	242	190	107	96.6	67.9	54.1	45.2	28.2	19.6	13.5	11.6	6.03
10.8V	230	181	102	93.2	66.7	52.9	44.0	27.6	18.9	13.2	11.5	5.98

## 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	3120	2585	1601	1120	933	681	509	380	245	185	143	77.2
9.9V	2972	2463	1523	1083	911	663	497	370	238	181	142	76.4
10.2V	2831	2346	1451	1048	888	647	484	360	233	178	141	75.6
10.5V	2696	2234	1382	1012	866	630	473	351	228	175	139	74.9
10.8V	2568	2128	1316	978	842	616	461	343	222	170	138	74.1