



## DATASHEET

# SLC 120-12

### 12V 120AH

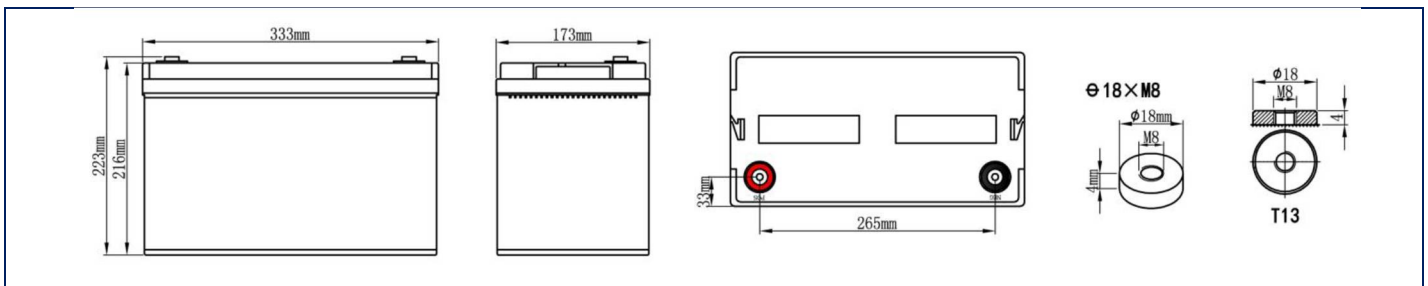
**AGM SEALED VRLA BATTERY**

**EUROBAT 2022 CLASSIFICATION: 10-12 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	30kg	1.250A	≈4.0 mΩ	M8	ABS



## CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (6.0A)	126.4AH
10 hour rate (12.0A)	120.0AH
5 hour rate (20.4A)	103.0AH
3 hour rate (30.0A)	90.9AH
1 hour rate (72.0A)	77.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

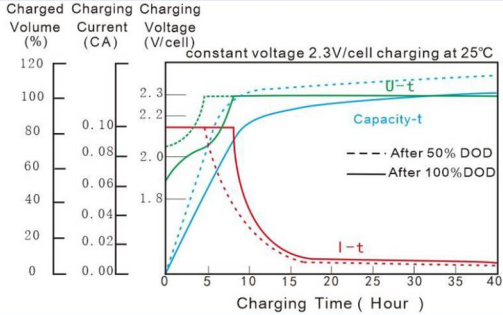
Cycle Application
1. Limit initial current less than 30.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.60A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 30.0A 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)

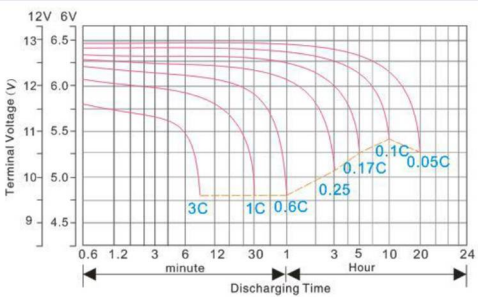
Operating Temperature		
Discharge: -15÷50°C	Charge: 0÷40°C	Storage: -15÷40°C

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

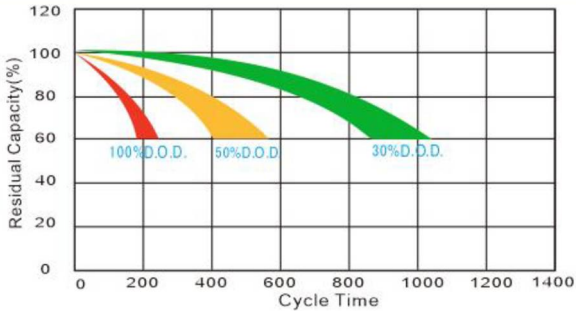
### CHARGE CHARACTERISTICS (25°C/77°F)



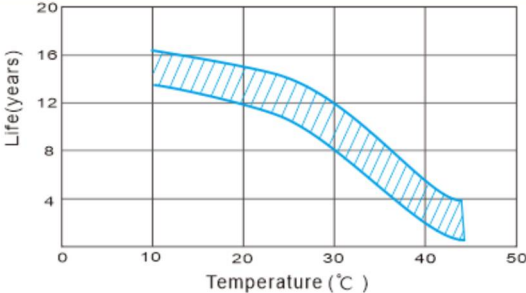
### DISCHARGE CHARACTERISTIC (25°C/77°F)



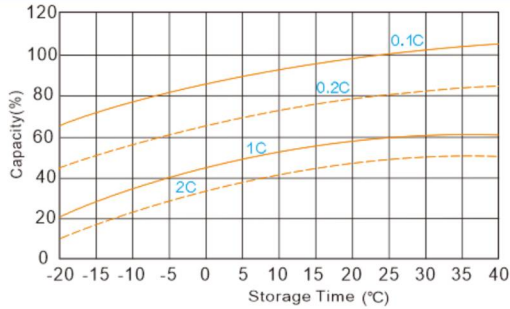
### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



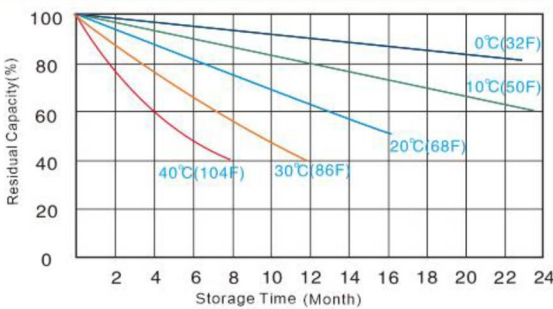
### TEMPERATURE VS FLOAT LIFE



### 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	295	233	131	113	77	61	51.2	32.3	22.0	15.0	12.6	6.57
9.9V	281	222	125	109	75	60	49.9	31.3	21.4	14.7	12.5	6.50
10.2V	268	211	119	105	73	58	48.7	30.3	20.9	14.5	12.4	6.44
10.5V	255	202	113	102	72	57	47.5	29.3	20.6	14.2	12.2	6.37
10.8V	242	192	108	98	70	56	46.4	28.3	19.9	13.9	12.0	6.31

### 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	3151	2613	1687	1182	984	717	536	400	259	196	151	81.3
9.9V	3002	2488	1607	1142	960	699	523	391	253	192	150	80.5
10.2V	2858	2369	1530	1104	936	683	510	381	246	188	148	79.8
10.5V	2722	2256	1457	1067	913	666	498	372	240	184	147	79.0
10.8V	2593	2149	1388	1030	891	649	486	363	234	181	145	78.2