

# SLC SERIES

GENERAL PURPOSE BATTERIES

## DATASHEET

# SLC 100-12

## 12V 100AH



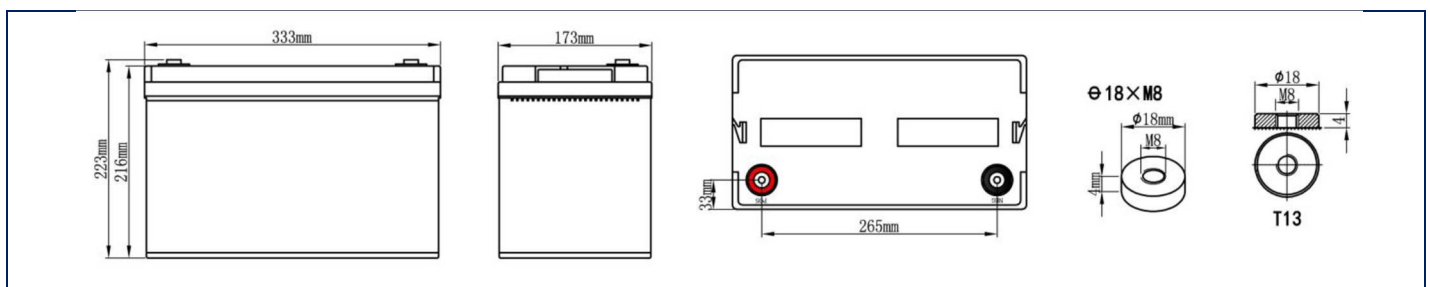
**AGM SEALED VRLA BATTERY**

**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	100AH	333mm	173mm	216mm	223mm	28,5kg	1.200A	≈4.8 mΩ	M8	ABS



### CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (5.0A)	106.0AH
10 hour rate (10.0A)	100.0AH
5 hour rate (17.0A)	86.0AH
3 hour rate (25.0A)	75.8AH
1 hour rate (60.0A)	64.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

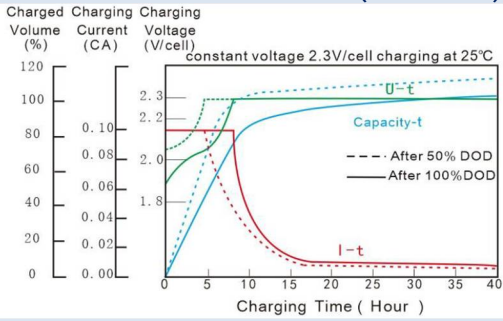
Cycle Application
1. Limit initial current less than 25.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.60A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 25.0A 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)

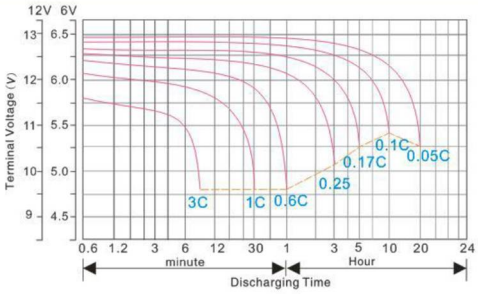
Operating Temperature		
Discharge: -15÷50°C	Charge: 0÷40°C	Storage: -15÷40°C

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

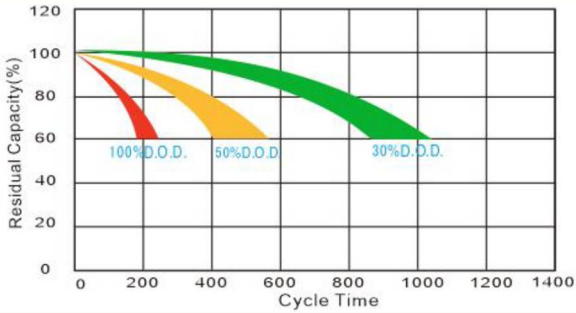
## CHARGE CHARACTERISTICS (25°C/77°F)



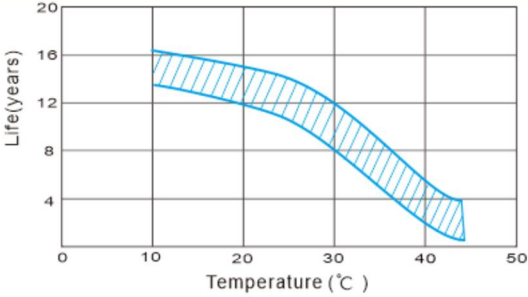
## DISCHARGE CHARACTERISTIC (25°C/77°F)



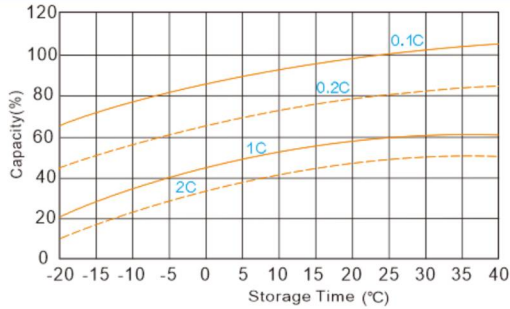
## CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



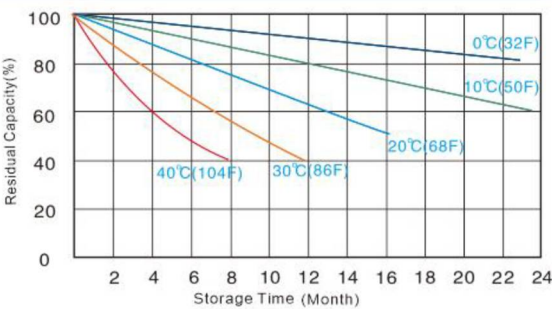
## TEMPERATURE VS FLOAT LIFE



## 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	245	194	109	94	64	51	42.7	26.3	18.3	12.5	10.51	5.46
9.9V	234	185	104	91	63	49	41.6	25.9	17.9	12.3	10.40	5.41
10.2V	223	176	99	88	61	48	40.6	25.3	17.5	12.1	10.30	5.35
10.5V	212	168	94	85	60	47	39.7	24.8	17.2	11.8	10.20	5.30
10.8V	202	160	90	82	59	46	38.7	24.2	16.7	11.6	10.00	5.25

## 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	2741	2271	1406	985	819	598	447	333	215	163	126	67.8
9.9V	2611	2163	1338	951	800	583	436	325	210	160	125	67.2
10.2V	2487	2060	1275	920	780	569	425	317	205	157	124	66.5
10.5V	2368	1962	1214	889	761	554	415	309	200	154	122	65.8
10.8V	2255	1869	1156	859	742	541	405	302	195	150	121	65.1