



GENERAL PURPOSE SERIES

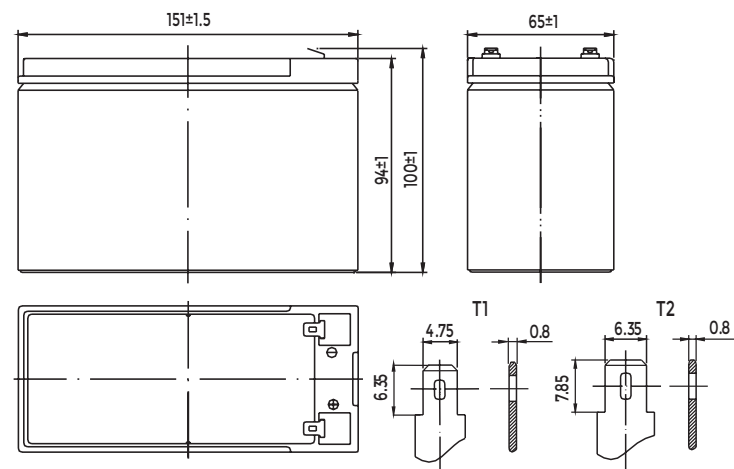
Characteristics

Nominal voltage		12V (6 cell per unit)
Nominal capacity at 20 hours rate/10.5V (25°C)		6.5Ah
Capacity (25°C)	10 Hours rate/10.5V	5.9Ah
	5 Hours rate/10.5V	5.4Ah
Terminal type		T1
Torque		N/A
Approx. internal resistance (25°C)		35.0 mΩ
Dimensions	Length	151±1.5mm (5.94inch)
	Width	65±1mm (2.56inch)
	Height	94±1mm (3.70inch)
	Total height	100±1mm (3.94inch)
Design Life (stand-by)	JIS at 25°C	5 years
	Eurobat at 20°C	3-5 years
Weight		2.0kg (4.41lbs)±4%
Nominal operating temperature		25±3°C (77°F±5)
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage at 25°C		13.6V~13.8V
Cyclic charging voltage at 25°C		14.5V~15.0V
Temperature compensation	Float charge	-18 mV/°C/Block
	Cycle charge	-30 mV/°C/Block
Max. charging current (A)		1.95A
Max. discharge current for 5 seconds		97.5A
Self discharge rate (25°C)		≤3%/month
Battery container ABS UL94-HB		V-0 optional

Overview

General Purpose series batteries are de-signed with state-of-the-art AGM (absorbent glass mǎ) technology, high-performance plates and electrolyte. With excellent value and characteristics, this range is suitable for all general purpose applications.

Dimensions & Terminal Type (mm)



Constrcution

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS (V-0 opt.)	AGM	Sulfuric Acid	Rubber	Copper

Constant current discharge characteristics at 25°C

(Ampere/battery)

F.V/Time	5min	10min	15min	30min	60min	2hr	3hr	4hr	5hr	10hr	20hr
9.60V	21.7	13.7	10.7	6.04	3.71	2.26	1.56	1.29	1.10	0.60	0.32
9.90V	21.0	13.3	10.5	5.92	3.66	2.24	1.55	1.28	1.09	0.59	0.32
10.2V	20.1	12.8	10.1	5.74	3.57	2.22	1.54	1.28	1.08	0.59	0.32
10.5V	19.3	12.2	9.73	5.60	3.49	2.19	1.53	1.27	1.08	0.59	0.32
10.8V	18.2	11.5	9.22	5.39	3.39	2.13	1.48	1.23	1.04	0.58	0.31

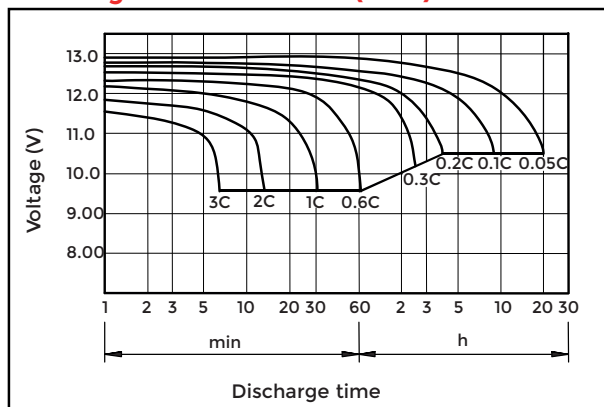
Constant power discharge characteristics at 25°C

(Watts/battery)

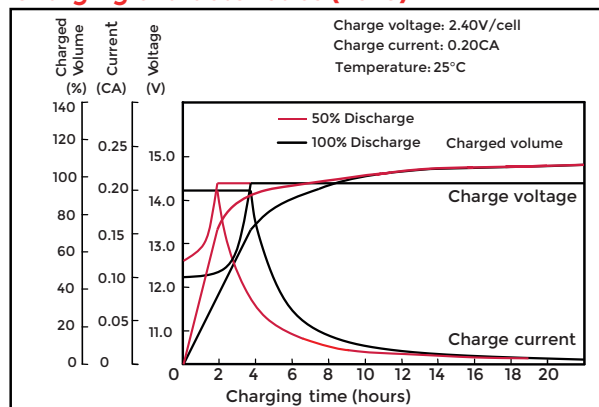
F.V/Time	5min	10min	15min	30min	60min	2hr	3hr	4hr	5hr	10hr	20hr
9.60V	242	155	122	69.2	43.0	26.4	18.6	15.4	13.1	7.16	3.84
9.90V	234	150	119	67.8	42.4	26.3	18.4	15.3	13.0	7.13	3.82
10.2V	225	144	115	65.7	41.3	26.0	18.3	15.2	13.0	7.10	3.80
10.5V	215	138	111	64.2	40.5	25.6	18.2	15.1	12.9	7.05	3.78
10.8V	203	130	105	61.8	39.2	25.0	17.6	14.6	12.5	6.91	3.70

The above characteristics represent average values and can be obtained within three charge and discharge cycles. The batteries must be fully charged before testing. The data in this document is subject to change without notice and become contractual only after written confirmation. Please contact SICBAT for the latest available version.

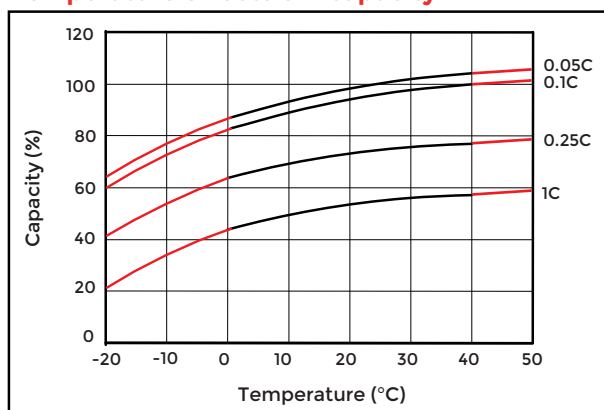
Discharge characteristics (25°C)



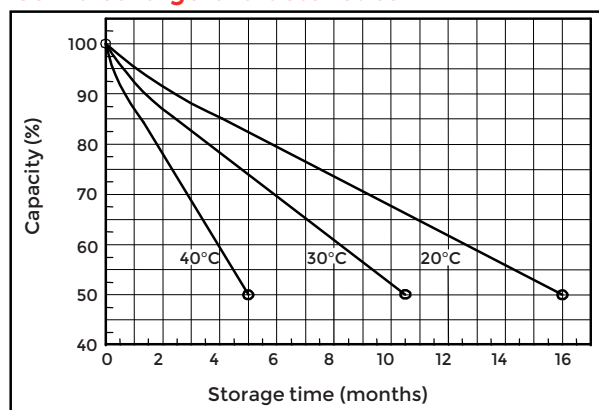
Charging characteristics (25°C)



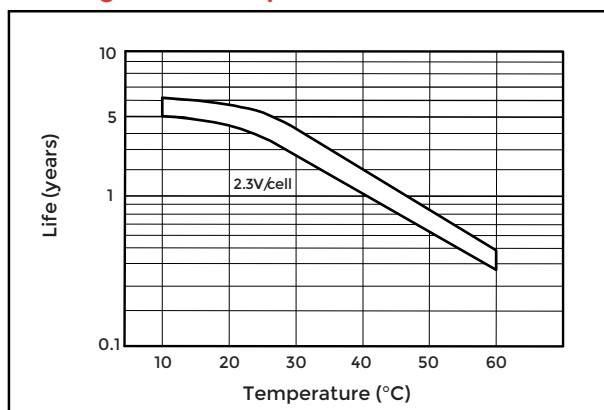
Temperature effects on capacity



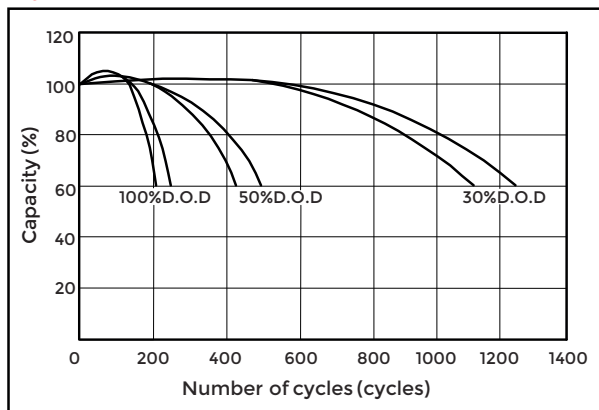
Self-discharge characteristics



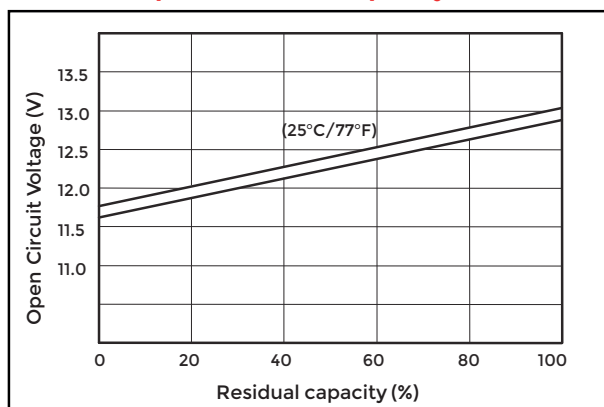
Floating life on temperature



Cycle life on D.O.D (25°C)



Relationship for OCV and capacity (25°C)



Charging voltage VS temperature

