



GENERAL PURPOSE SERIES

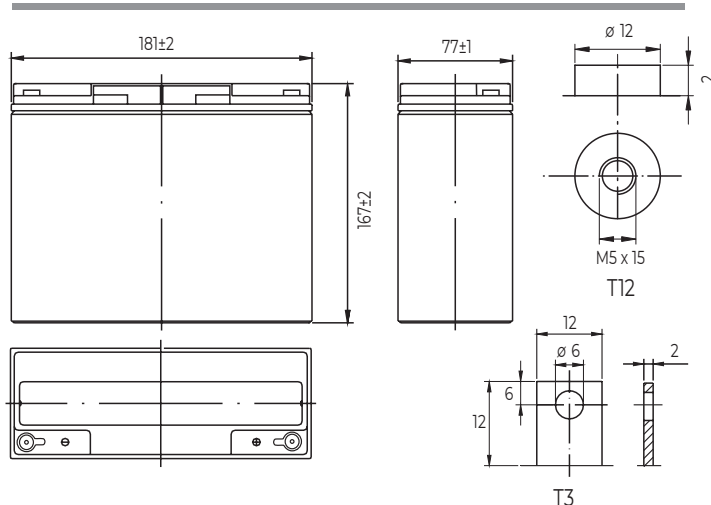
Characteristics

Nominal voltage		12V (6 cells per unit)
Nominal capacity at 20 hours rate/10.5V (25°C)		17Ah
Capacity (25°C)	10 Hours rate/10.5V	15.9Ah
	5 Hours rate/10.5V	14.5Ah
Terminal type		T3
Torque		3.0±0.6N.m
Approx. internal resistance (25°C)		17.0mΩ
Dimensions	Length	181±2mm (7.13inch)
	Width	77±1mm (3.03inch)
	Height	167±2mm (6.57inch)
	Total height	167±2mm (6.57inch)
Design Life (stand-by)	JIS at 25°C	5 years
	Eurobat at 20°C	3-5 years
Weight		5.00kg (11.00lbs)±4%
Nominal operating temperature		25°C±3 (77±5°F)
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)		5.1A
Max. discharge current for 5 seconds		225A
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 mat) technology, high-performance plates and electrolyte. With excellent value and characteristics, this range is suitable for all general purpose applications.

Dimensions & Terminal Type (mm)



Construction

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	64.9	41.1	32.1	18.1	11.1	6.09	4.21	3.49	2.97	1.61	0.86
9.90V	63.0	39.9	31.4	17.7	11.0	6.06	4.19	3.46	2.95	1.60	0.86
10.2V	60.4	38.3	30.2	17.2	10.7	6.00	4.16	3.44	2.93	1.60	0.86
10.5V	57.8	36.6	29.2	16.8	10.5	5.91	4.13	3.42	2.91	1.59	0.85
10.8V	54.5	34.6	27.6	16.2	10.2	5.76	4.01	3.31	2.82	1.55	0.83

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	725	464	366	207	129	71.3	50.1	41.5	35.4	19.3	10.4
9.90V	703	450	357	203	127	70.8	49.8	41.3	35.2	19.2	10.3
10.2V	674	432	344	197	124	70.2	49.4	41.0	35.0	19.1	10.3
10.5V	645	413	333	192	121	69.2	49.1	40.7	34.7	19.0	10.2
10.8V	609	390	315	185	118	67.4	47.6	39.5	33.7	18.7	10.0

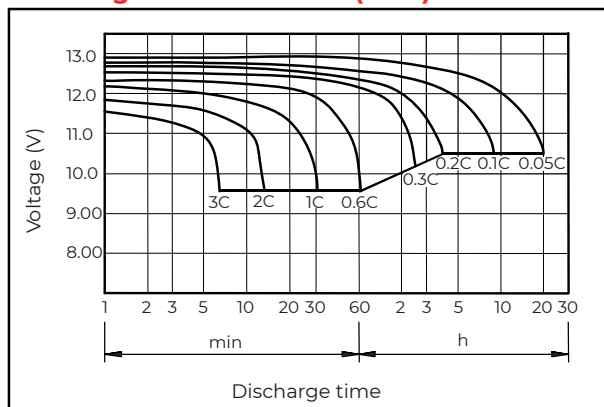
The above characteristics represent average values and can be obtained within three charge and discharge cycles. The batteries must be fully charged before testing. The data in this document is subject to change without notice and become contractual only after written confirmation. Please contact SICBAT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

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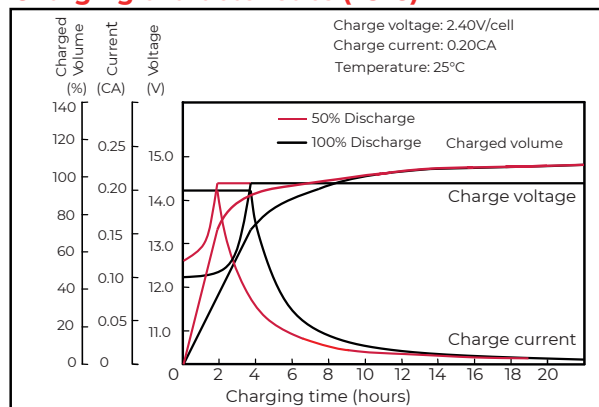
Valve-regulated lead-acid battery

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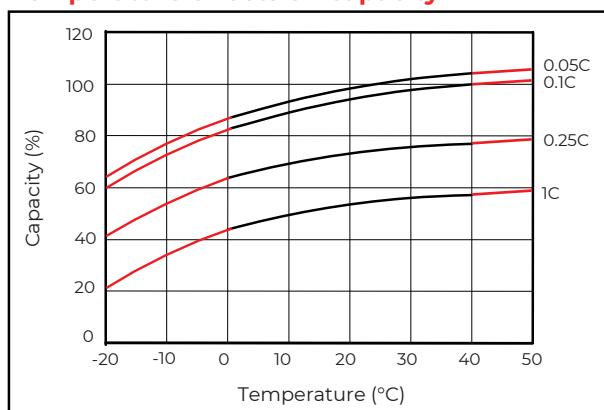
Discharge characteristics (25°C)



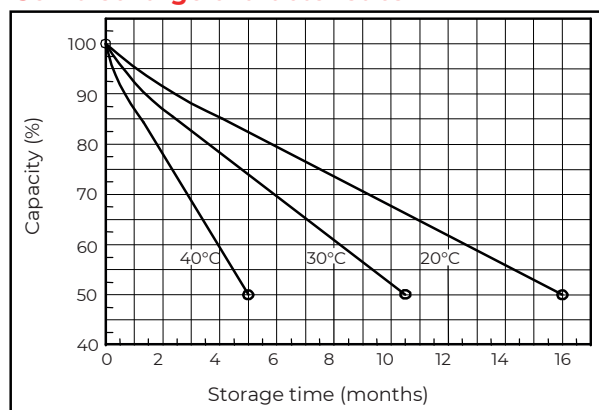
Charging characteristics (25°C)



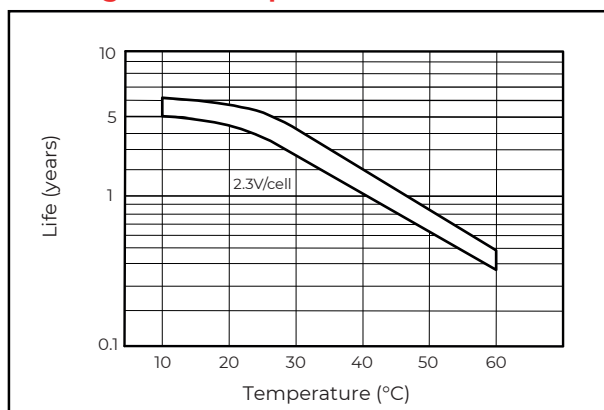
Temperature effects on capacity



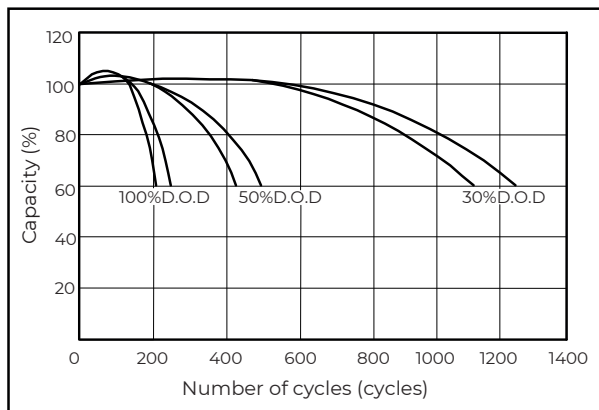
Self-discharge characteristics



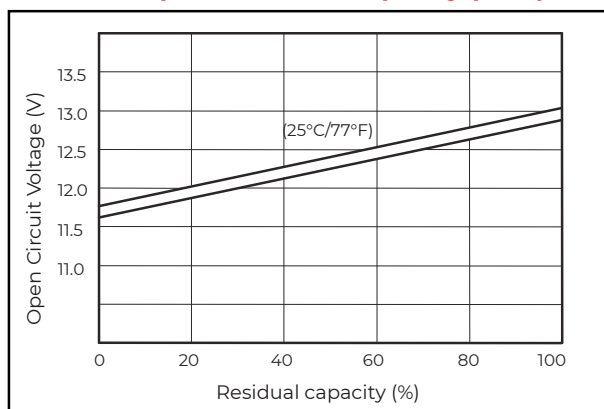
Floating life on temperature



Cycle life on D.O.D (25°C)



Relationship for OCV and capacity (25°C)



Charging voltage VS temperature

