

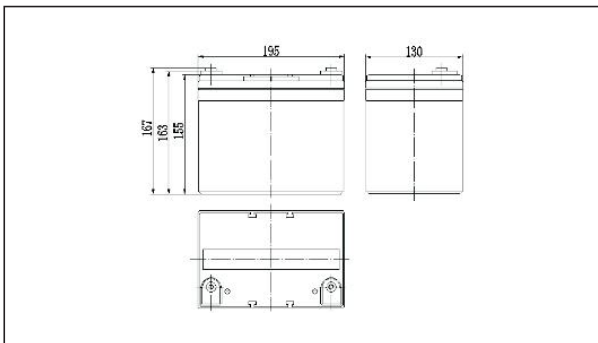
## AB-BAT12V40Ah 12V40Ah

### Specifications

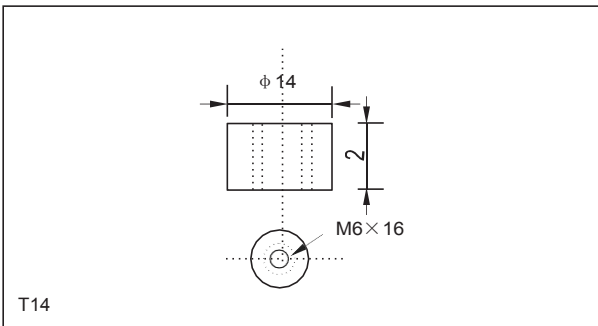
Nominal Voltage		12V
Number of cell		6 cells
Rated capacity(15min.rat)		150 Watts/cell
Dimensions	Length	195±2mm(7.68inch)
	Width	130±2mm(5.12inch)
	Height	155±2mm(6.10inch)
	Total Height	167±2mm(6.57inch)
Approx. Weight		11.5kg(25.4lbs)±3%



### Outer dimensions (mm)



### Terminal Type (mm)



### Characteristics

Capacity(20HR,25°C)		40Ah
Capacity(10HR,25°C)		38Ah
Capacity(15min.rate,25°C)		150 Watts/cell
Terminal type		T14
Internal resistance (Fully charged,25°C)		Approx.8m Ω
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	Remaining Capacity:65%
Nominal operating temperature		25°C ± 3°C (77°F ± 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(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		10.8A
Maximum discharge current		330A(5 sec.)
Designed floating life(20°C)		10years

### Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

### Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Tim	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h	6h
1.60V/cel	162.35	97.95	80.13	64.17	45.42	33.78	27.60	14.01	9.98	8.04	6.99	5.97
1.67V/cel	146.13	93.52	77.77	61.59	43.98	32.75	26.88	13.80	9.89	7.97	6.93	5.93
1.70V/cel	138.64	91.16	75.29	60.36	43.16	32.14	26.57	13.70	9.85	7.94	6.90	5.90
1.75V/cel	126.41	87.24	72.82	58.30	42.13	31.42	25.96	13.49	9.79	7.88	6.85	5.86
1.80V/cel	113.92	82.4	69.01	55.11	40.58	30.18	25.13	13.18	9.50	7.65	6.64	5.69

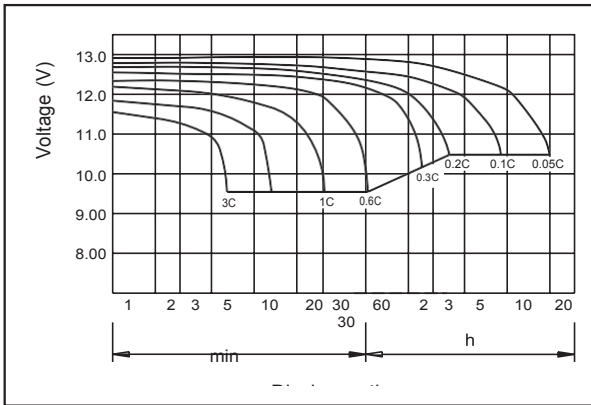
### Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10mi	15min	20min	30min	45min	60min	2h	3h	4h	5h	6h
1.60V/cell	345.05	184.37	154.60	123.70	87.65	65.30	53.25	27.09	19.61	15.80	13.80	11.88
1.67V/cell	313.12	176.13	150.59	106.40	84.87	63.24	51.91	26.88	19.50	15.69	13.70	11.76
1.70V/cell	297.67	172.01	145.44	118.76	83.33	62.11	51.19	26.78	19.38	15.69	13.60	11.65
1.75V/cell	272.95	163.77	141.73	112.48	81.37	60.56	50.16	26.27	19.26	15.57	13.60	11.64
1.80V/cell	250.29	154.5	133.28	106.30	78.28	58.40	48.62	25.65	18.68	15.11	13.18	11.26

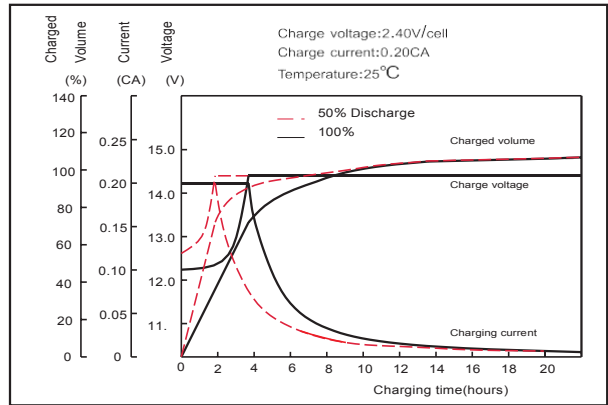
Note: The above characteristics data can be obtained within three charge or discharge cycles.

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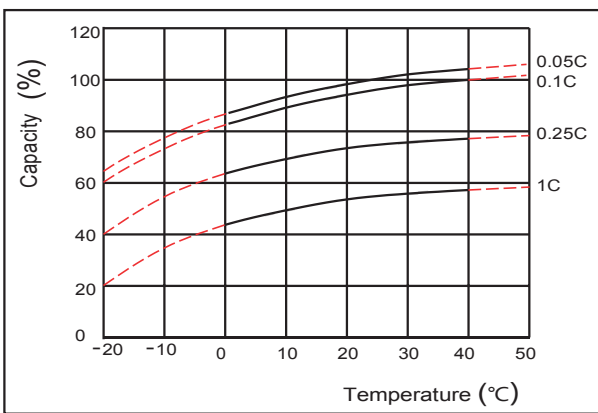
## Discharge characteristics(25°C)



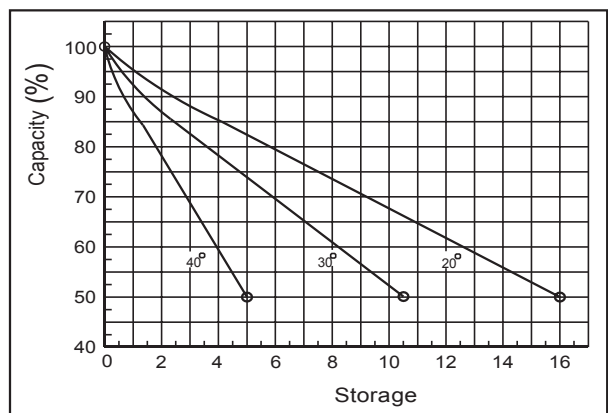
## Charging characteristics (25°C)



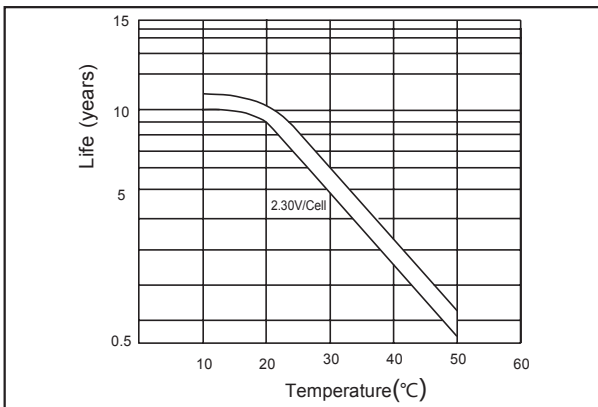
## Effect of Temperature on Capacity



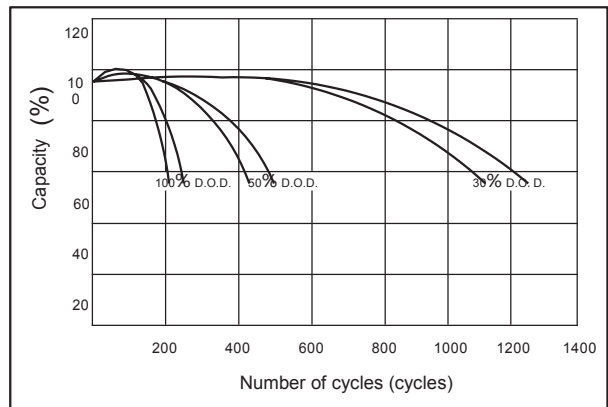
## Self-discharge characteristics



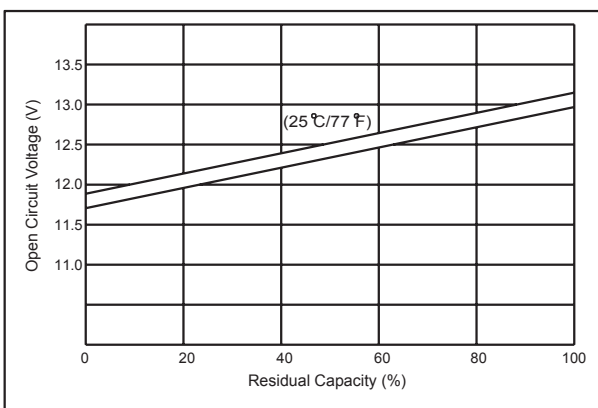
## Floating Life on Temperature



## Cycle service Life on D.O.D (25°C)



## The relationship for OCV and Capacity (25°C)



## The relationship for Charging voltage and Temperature

