

## SC12-7.5

12V7.5Ah(20hr)

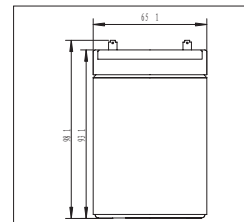
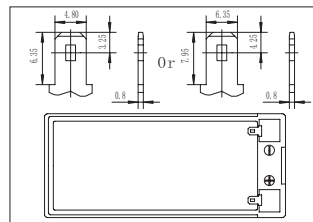
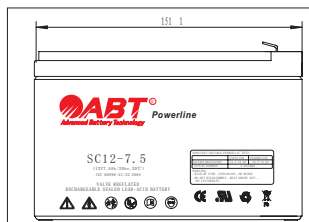
ABT Powerline SC Series is a Standard Commercial battery according to Eurobat Classification with 5 years design life for standby application. As with all ABT batteries, all are rechargeable, highly efficient, leakage proof and maintenance free.



### Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity 20°C (68°F)	7.5Ah @20hr-rate to 1.75V Per cell 6.98Ah @10hr-rate to 1.75V Per cell 4.725Ah @1hr-rate to 1.60V Per cell
Weight	Approx. 2.58kg(5.69lb)
Maximum Discharge Current	98A(5s)
Short circuit current	600A
Maximum charge current	2.25A(30% of rated capacity)
Internal Resistance	Approx. 20 mOhms
Mass Energy(Wh/kg)	34.88
Volumic Energy(Wh/L)	98.6
Operating Temperature Range	Discharge -20~60°C; Charge -10~60°C; Storage -20~60°C
Nominal Operating Temperature Range	20°C±3°C(68°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 20°C(68°F)
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 20°C(68°F)
Self Discharge	ABT batteries can be stored for more than 6 months at 20°C(68°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Faston F1 or F2
Container Material	ABS(UL94-HB) Flammability resistance of UL94-V0 can be available upon request.

### Dimensions / Terminal



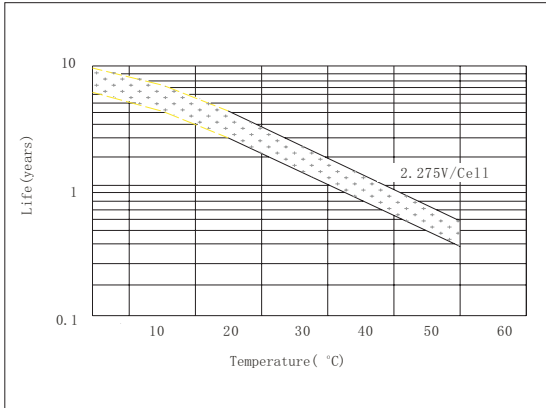
### Constant Current Discharge Data (Amperes at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	27.99	18.45	13.43	8.181	4.725	2.875	2.056	1.602	1.309	0.876	0.718	0.389
1.65V	26.94	17.88	13.17	8.057	4.705	2.837	2.038	1.590	1.301	0.869	0.711	0.384
1.70V	25.71	17.35	12.90	7.930	4.711	2.803	2.020	1.578	1.294	0.863	0.704	0.379
1.75V	24.30	16.67	12.67	7.800	4.667	2.767	2.000	1.566	1.287	0.857	0.698	0.375
1.80V	22.49	15.98	12.44	7.670	4.622	2.741	1.977	1.553	1.280	0.851	0.693	0.371

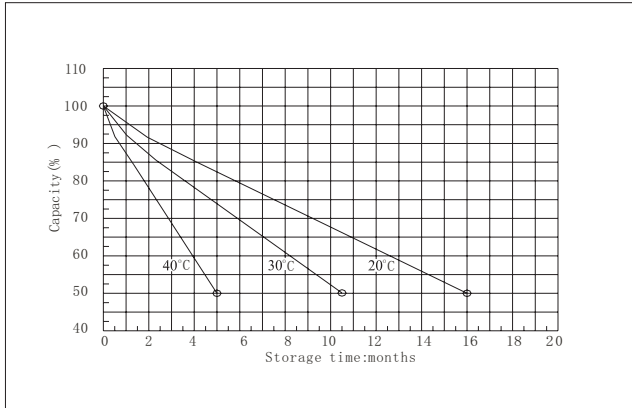
### Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	55.47	36.30	27.02	15.83	8.640	5.222	3.541	2.818	2.363	1.595	1.320	0.699
1.65V	52.87	35.20	26.50	15.61	8.535	5.142	3.518	2.805	2.351	1.584	1.311	0.692
1.70V	50.03	34.10	26.01	15.37	8.414	5.069	3.499	2.790	2.341	1.574	1.303	0.684
1.75V	47.34	32.80	25.48	15.12	8.290	4.993	3.478	2.774	2.328	1.564	1.293	0.676
1.80V	44.58	31.50	25.04	14.87	8.210	4.910	3.461	2.762	2.314	1.555	1.283	0.667

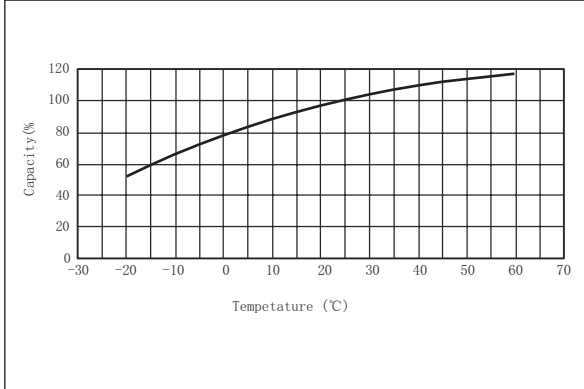
### Trickle (or float) Service Life



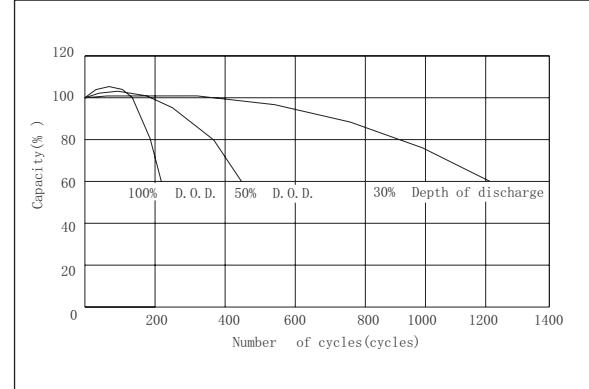
### Capacity Retention Characteristic



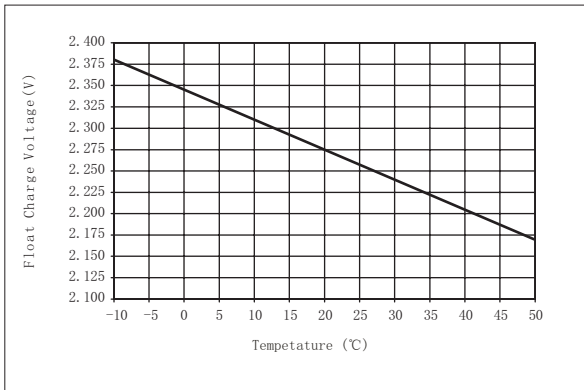
### Capacity and Temperature



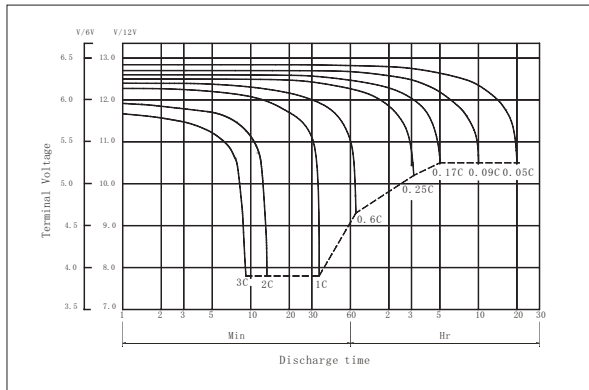
### Cycle Service Life



### Float Charge Voltage and Temperature



### Terminal Voltage (V) and Discharge Time(20°C68°F)



### Charging Procedures

Application	Charge Voltage(V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Ranges	
Cycle Use	20°C(68°F)	2.45	2.40~2.50	0.3C
Standby	20°C(68°F)	2.275	2.25~2.30	0.3C

### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.40
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

### Contact information

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ABT VRLA Battery: Available Power Range From 7Ah to 3000Ah

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