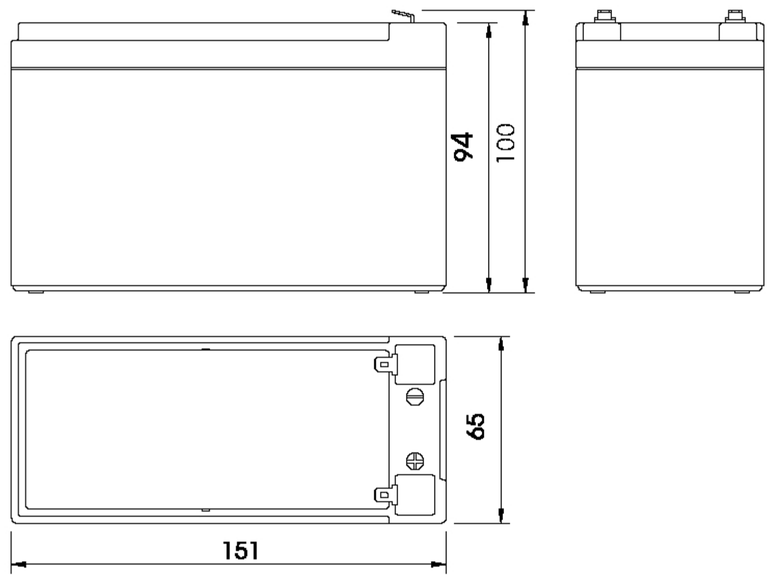
EFFEKTA®
STROMVERSORGUNGEN
POWER SUPPLIES

Battery BT12-9.5K
12 V - 9.5 Ah



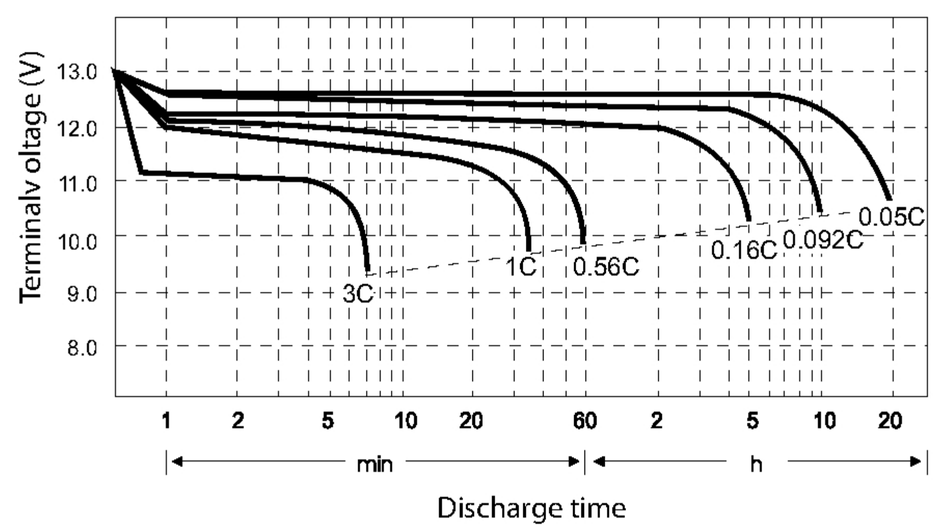
■ Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		9.5Ah
Dimensions	Total Height (with terminals)	3.94 inches(100mm)
	Height	3.70 inches(94mm)
	length	5.94 inches(151mm)
	width	2.56 inches(65mm)
Weight		Approx.5.92 Pound(2.69kg)

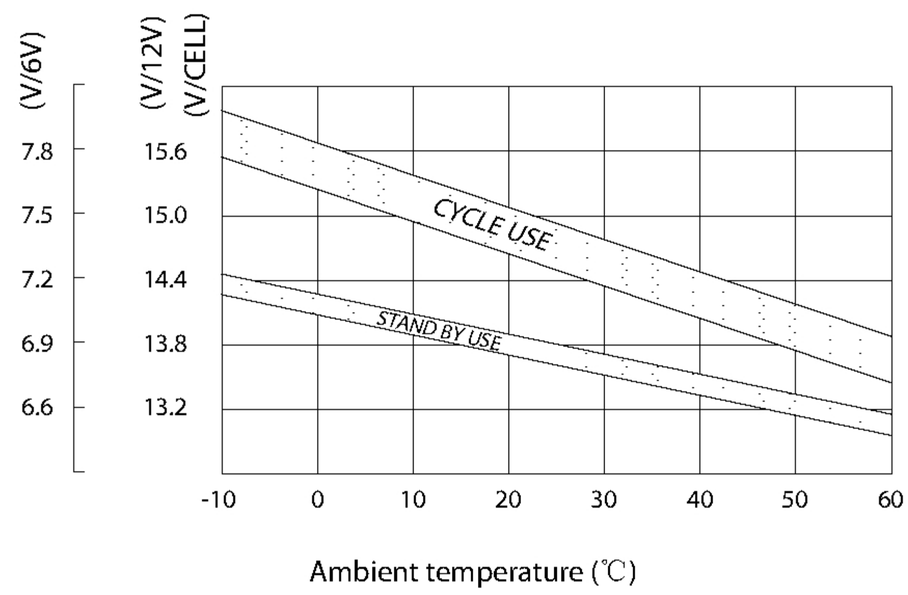
■ Characteristics

Capacity 77°F (25℃)	20 hour rate (0.45A)	9.5 Ah
	10 hour rate (0.83A)	8.8 Ah
	5 hour rate (1.44A)	7.7 Ah
	1hour rate (5.40 A)	5.9 Ah
	15Minute Rate (15.6 A)	4.4 Ah
Internal Resistance	Full charged Battery 77°F (25℃)	13 MΩ
Capacity affected by Temperature (20hour rate)	104°F (40℃)	102%
	77°F (25℃) 100%	32
	°F (0℃) 85%	
	5°F (-15℃)	65%
Self-Discharge 77°F (25℃)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
Max. Discharge Current 77°F (25℃)	135A(5S)	
Terminal	F1 \ F2	
Charge (Constant Voltage) Cycle	Initial Charging Current less than 27A	
	Voltage 14.4~14.7 V / 77°F (25℃)	
Float	Voltage 13.5~13.8V / 77°F (25℃)	

■ Discharge Curves 77°F (25℃)



■ Relationship between charge voltage and temperature



■ Constant Current Discharge (AMPERES @25℃)

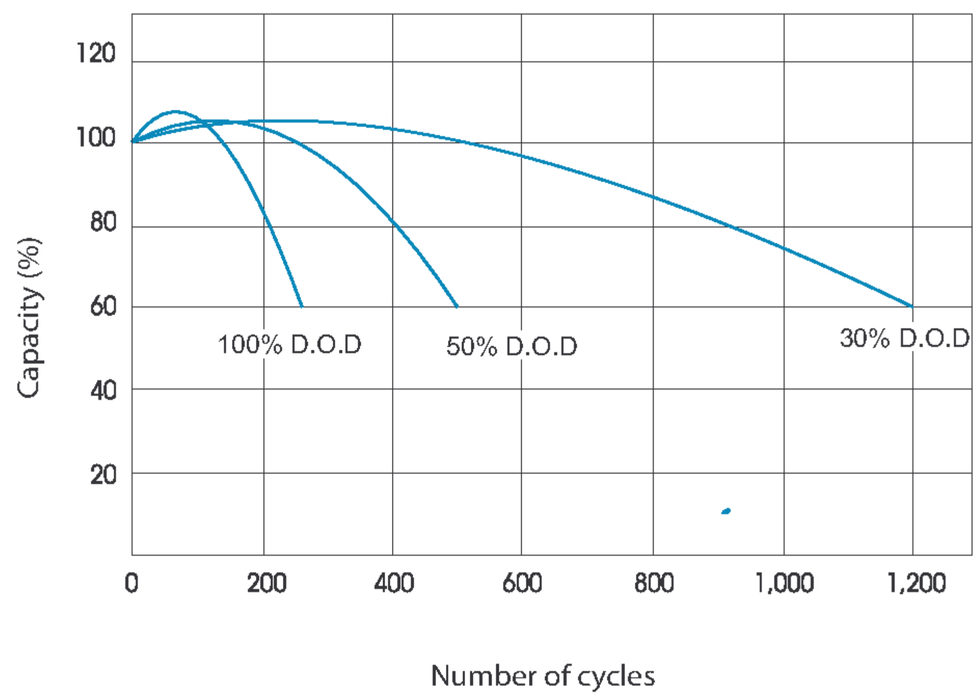
F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
9.6	42.5	24.8	19.7	10.8	6.47	3.49	2.36	1.85	1.57	0.86	0.46
9.9	27.9	24.1	19	10.5	6.31	3.37	2.34	1.84	1.56	0.85	0.45
10.2	39.6	23.1	18.4	10.3	6.14	3.33	2.31	1.82	1.56	0.84	0.45
10.5	37.9	22.2	17.7	10.2	5.98	3.28	2.3	1.8	1.53	0.84	0.45
10.8	35.7	22	16.8	9.89	5.79	3.18	2.25	1.76	1.51	0.82	0.44

■ Constant Power Discharge (WATTS PER CELL@25℃)

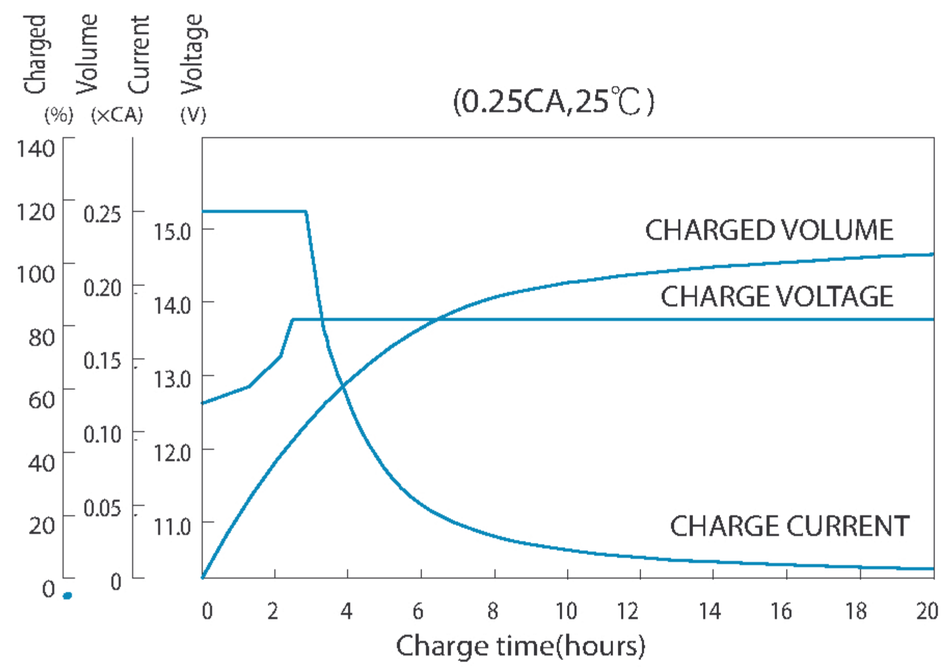
F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
9.6	477	294	224	123	75	40.8	28.1	22.1	18.7	10.2	5.48
9.9	463	288	222	122	47.4	39.4	22.7	21.9	18.6	10.2	5.46
10.2	451	285	220	120	73.8	38.9	27.5	21.7	18.5	10.1	5.44
10.5	438	283	218	118	72.6	38.5	27.4	21.5	18.3	10.1	5.42
10.8	402	275	203	114	70.2	37.4	27	21	18.1	9.85	5.33

The operating environment temperature above 40℃ should be avoided ,After long term storage, The battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles.
To get the longest life, the battery should be fully charged before storage.

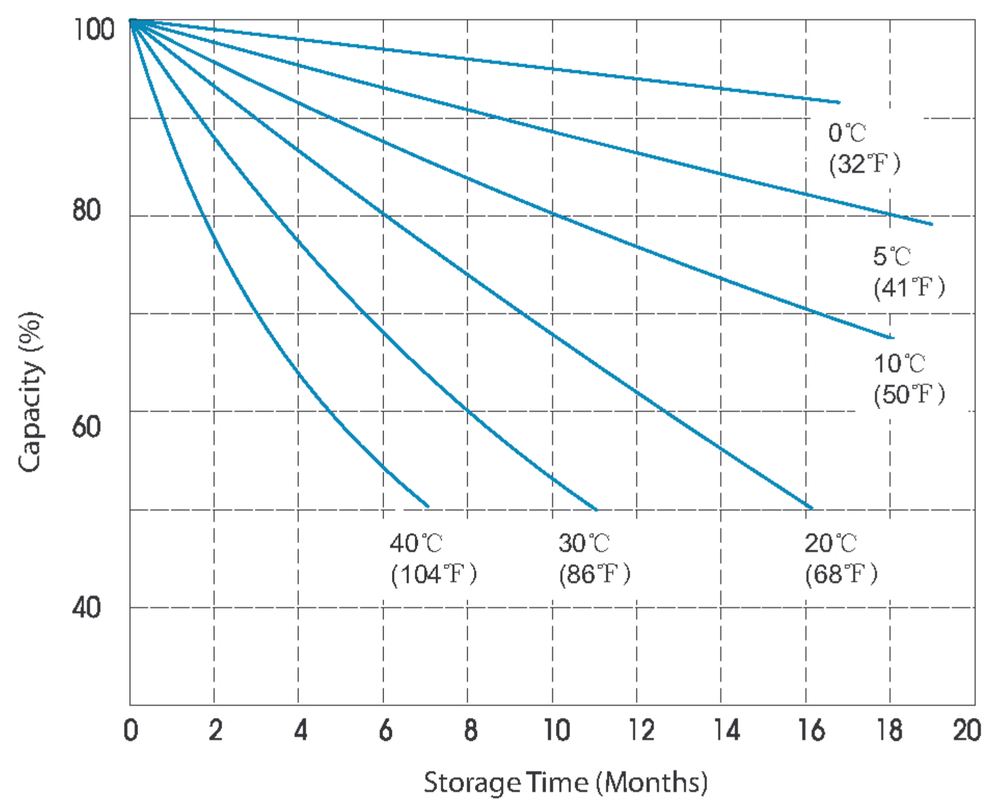
■ Cycle service life in relation to depth of discharge



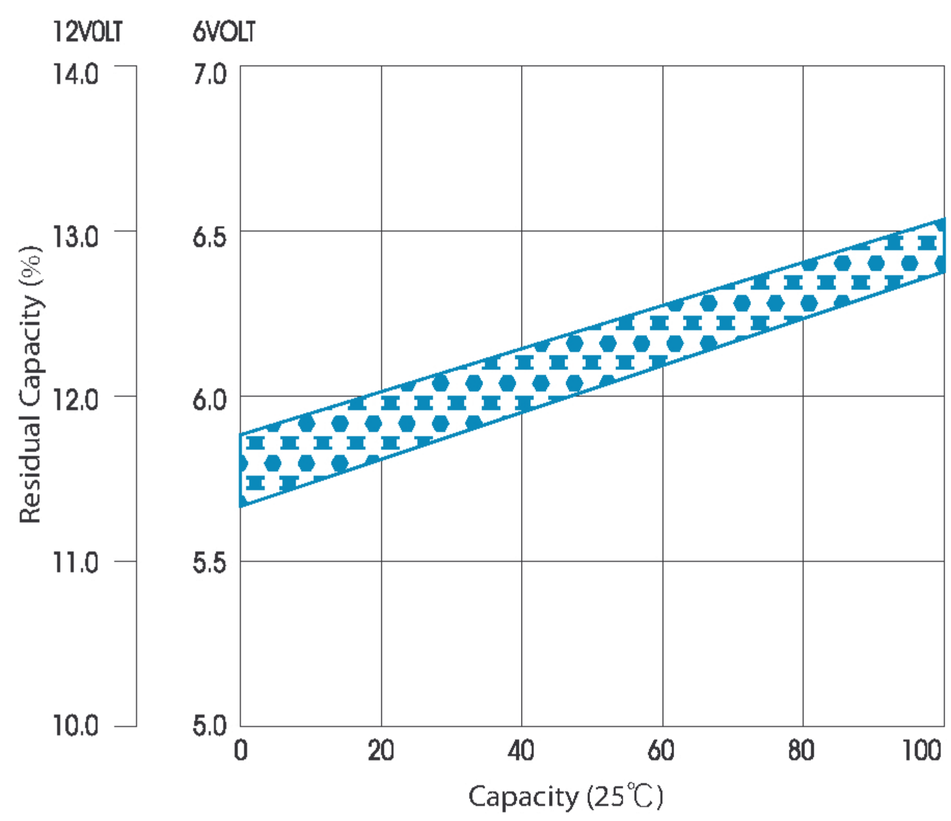
■ Constant voltage charge characteristic



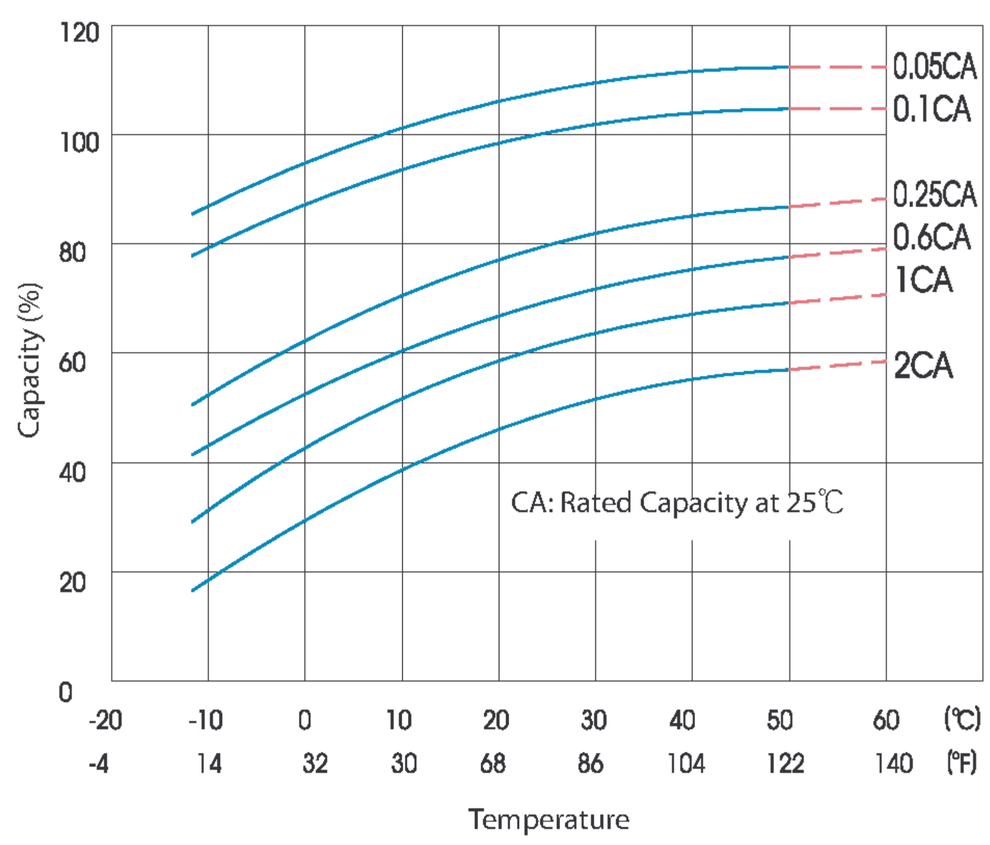
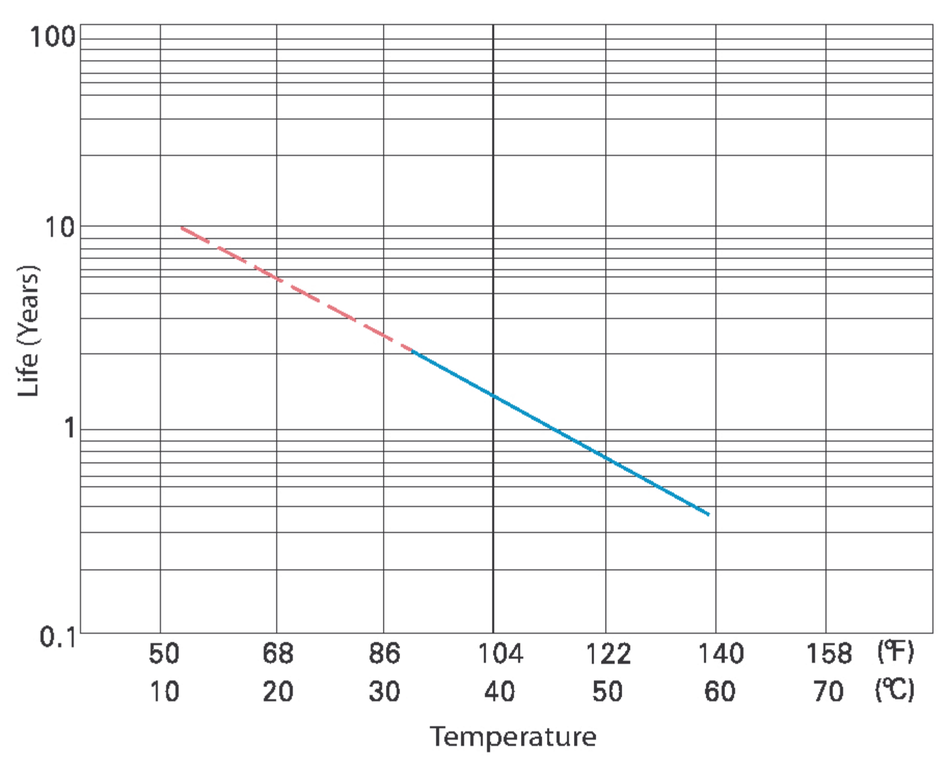
■ Self-Discharge Characteristics



■ Relationship of OCV and Residual Capacity % (25℃)



■ Temperature effects on capacity



■ Temperature effects float life