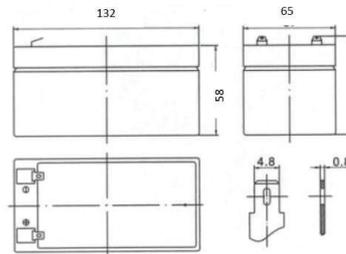
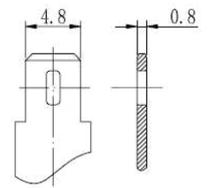




Dimensions



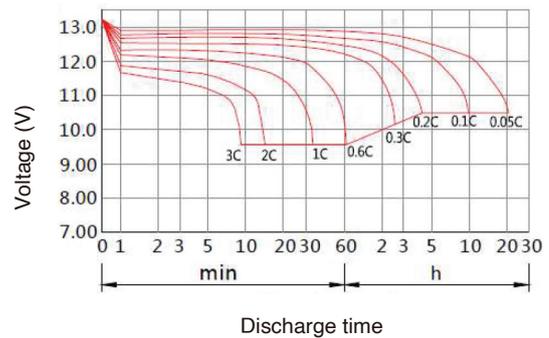
Terminal



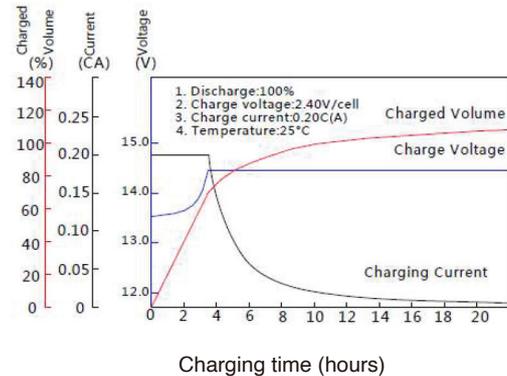
Specifications

Nominal Voltage		12V
Capacity (25°C)	20HR (10.5V)	3.2Ah
	10HR (10.5V)	3.0Ah
	1HR (9.60V)	2.08Ah
Dimensions	Length	132 ± 1mm (5.20inch)
	Width	65 ± 1mm (2.56inch)
	Height	58 ± 1mm (2.28inch)
	Total Height	65 ± 1mm (2.56inch)
Approx. Weight		1.2kg (2.65lbs) ± 5%
Terminal type		T1
Internal resistance (Fully charged, 25°C)		Approx. 52mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	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)
Floating charging voltage (25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cycling charging current		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		0.96A
Terminal material		Copper
Maximum discharging current		48A (5sec.)
Design floating life (20°C)		10 years

Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Constant Current Discharge Characteristics (A, 25°C)

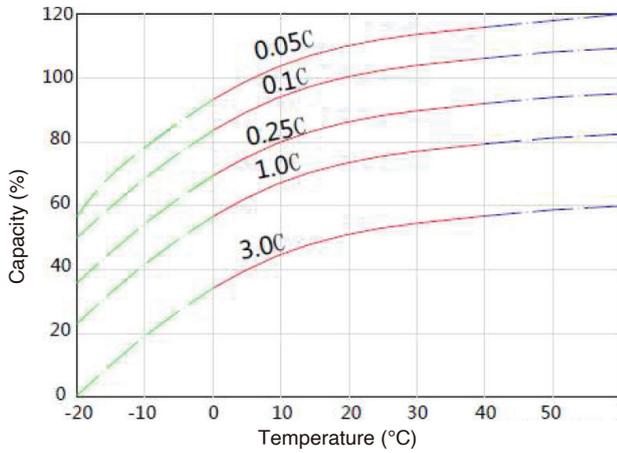
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	12.2	7.68	6.08	3.39	2.08	1.14	0.82	0.65	0.55	0.30	0.16
9.90V	11.8	7.45	5.93	3.32	2.05	1.13	0.81	0.65	0.55	0.30	0.16
10.2V	11.3	7.14	5.72	3.22	2.00	1.12	0.81	0.64	0.55	0.30	0.16
10.5V	10.8	6.84	5.52	3.14	1.96	1.10	0.80	0.64	0.54	0.30	0.16
10.8V	10.2	6.45	5.23	3.03	1.90	1.08	0.78	0.62	0.53	0.29	0.15

Constant Current Discharge Characteristics (Watt, 25°C)

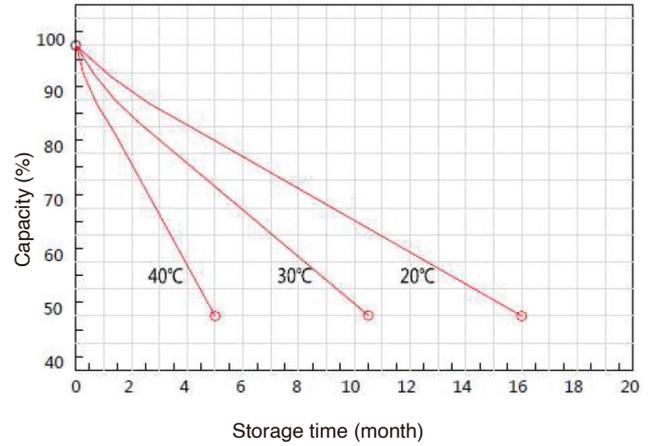
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	136	86.6	69.3	38.9	24.1	13.3	9.69	7.77	6.63	3.62	1.95
9.90V	132	84.0	67.6	38.1	23.7	13.2	9.64	7.73	6.59	3.61	1.94
10.2V	126	80.6	65.2	36.9	23.1	13.1	9.57	7.68	6.54	3.59	1.93
10.5V	121	77.1	62.9	36.0	22.7	12.9	9.50	7.62	6.50	3.57	1.92
10.8V	114	72.8	59.6	34.7	22.0	12.6	9.22	7.39	6.30	3.50	1.88

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

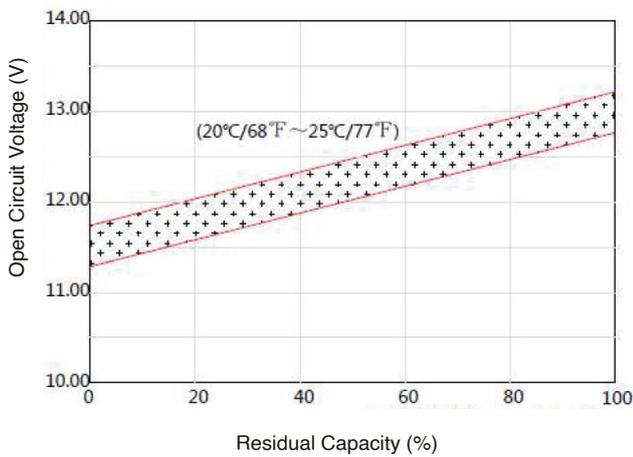
Effect of Temperature on Capacity



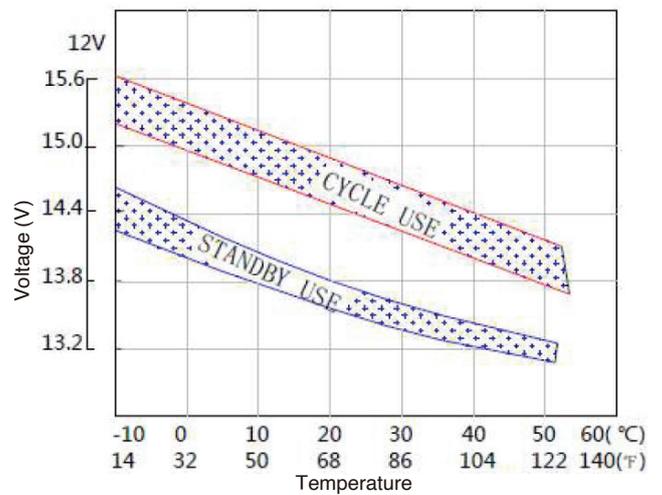
Self-discharge Characteristic



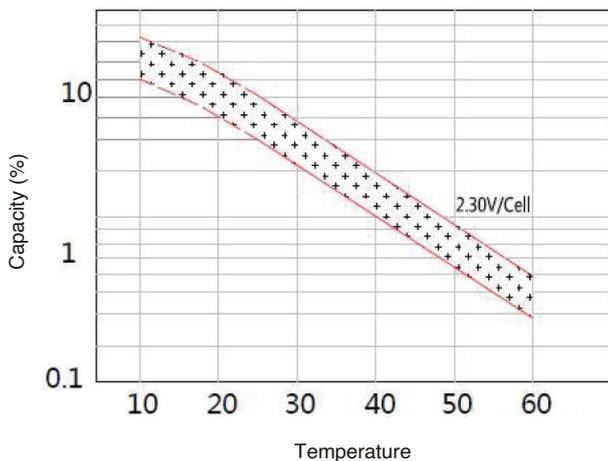
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D (25°C)

