

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	40 Ah
	5HR(10.5V)	35Ah
	1HR(9.60V)	24.8Ah
Dimension	Length	197±2mm (7.76inch)
	Width	165±2mm (6.50inch)
	Height	170±2mm (6.69inch)
	Total Height	170±2mm (6.69inch)
Approx. Weight		12.5kg (27.5lbs)±4%
Terminal type		T4/T9
Internal resistance (Fully charged, 25°C)		Approx. 8.5m Ω
Capacity affected by temperature (10HR)	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)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		12A
Terminal material		Copper
Maximum discharge current		400A(5 sec.)
Designed floating life(20°C)		10~15 years

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	10HR	20HR
1.60V	139.7	97.77	72.89	42.18	24.76	14.83	10.89	8.85	7.46	4.26	2.19
1.65V	134.63	94.86	70.98	41.25	24.3	14.62	10.75	8.74	7.38	4.22	2.17
1.70V	128.06	91.03	68.47	40.03	23.69	14.33	10.55	8.59	7.26	4.17	2.15
1.75V	119.6	86.09	65.19	38.43	22.89	13.94	10.3	8.4	7.11	4.1	2.11
1.80V	108.96	79.77	61	36.35	21.85	13.44	9.96	8.14	6.92	4.0	2.07

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	10HR	20HR
1.60V	240.4	168.66	129.35	77.76	46.98	28.53	21.11	17.23	14.61	8.51	4.37
1.65V	237.81	167.96	128.56	77.18	46.6	28.32	20.96	17.11	14.52	8.44	4.34
1.70V	228.76	162.99	125.17	75.32	45.59	27.84	20.64	16.87	14.32	8.34	4.3
1.75V	217.51	156.92	120.9	73.04	44.27	27.22	20.22	16.55	14.06	8.21	4.24
1.80V	201.69	147.96	114.73	69.8	42.46	26.38	19.63	16.1	13.71	8.03	4.17

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

12V Voltage 40Ah Capacity 15years Design Life



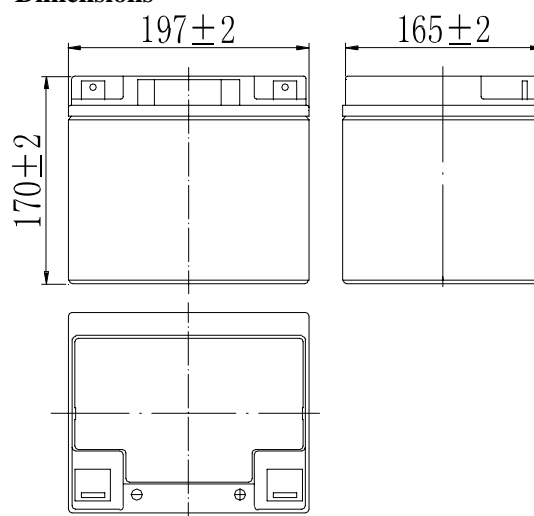
ISO9001



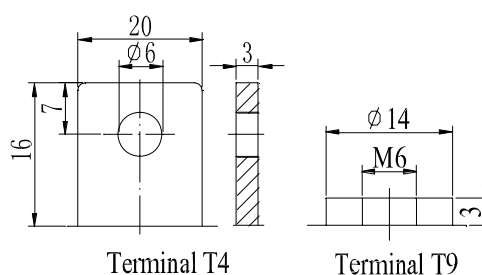
ISO14001



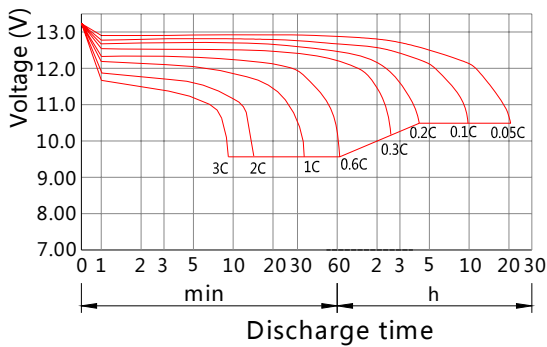
Dimensions



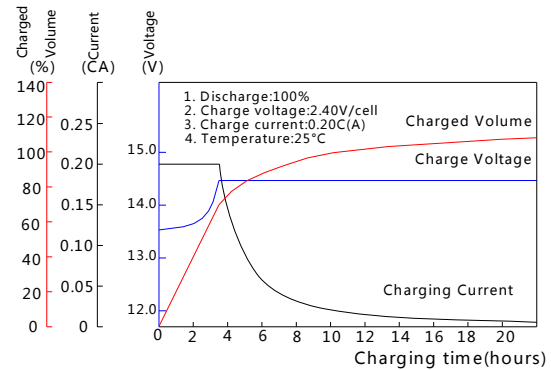
Terminal



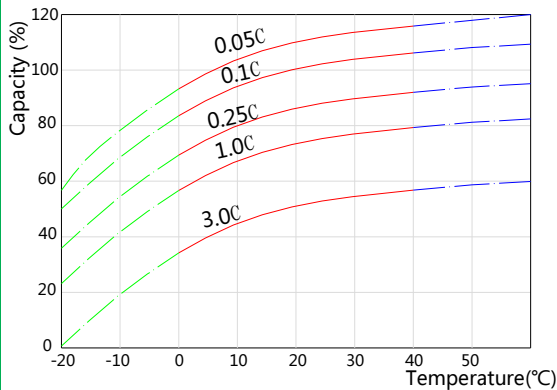
Discharge Characteristics(25°C)



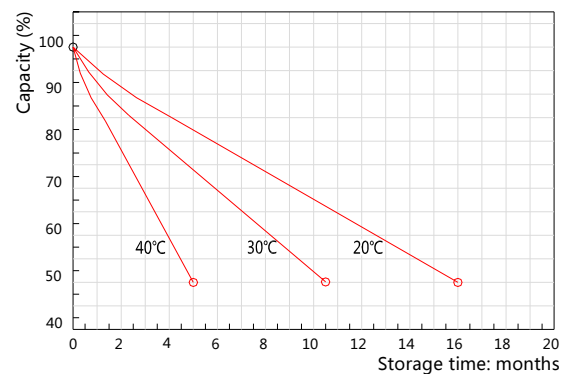
Charging Characteristics(25°C)



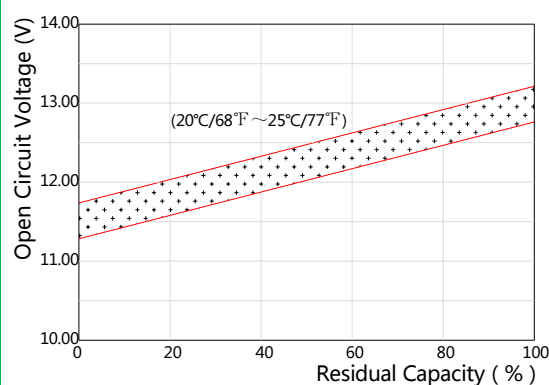
Effect of Temperature on Capacity



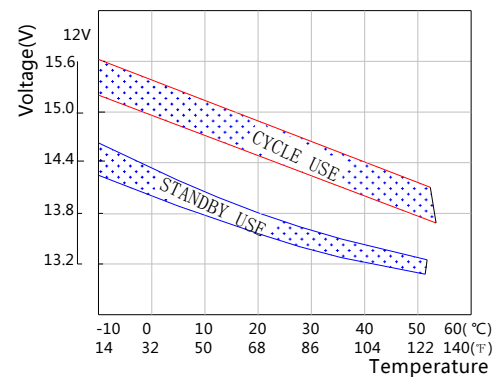
Self-discharge Characteristics



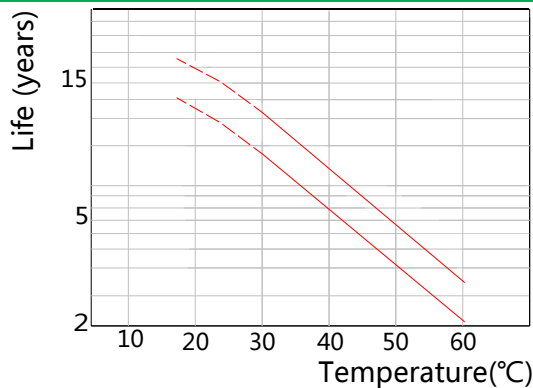
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)

