T12/9A VRLA BATTERY

Specifications

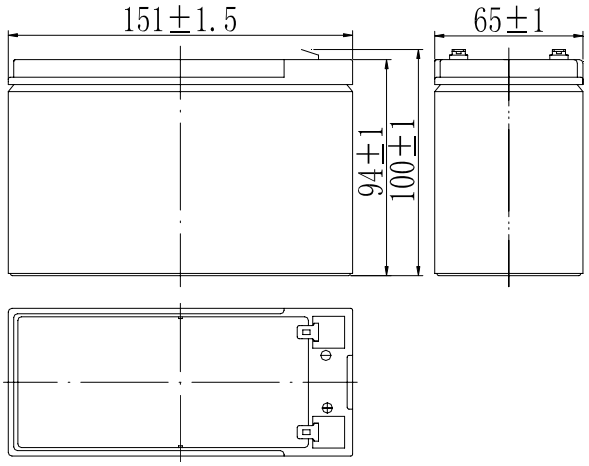
Nominal Voltage		12 V
Capacity (25℃)	20HR(10.5V)	9Ah
	10HR(10.5V)	8.4Ah
	1HR(9.60V)	5.9Ah
Dimension	Length	151±1.5mm (5.94inch)
	Width	65±1mm (2.56inch)
	Height	94±1mm (3.70inch)
	Total Height	100±1mm (3.94inch)
Approx. Weight		2.42kg (5.324lbs)±5%
Terminal type		T1/T2
Internal resistance (Fully charged, 25℃)		Approx. 19mΩ
Capacity affected by temperature (20HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃±3℃(77℉±5℉)
Operating temperature range	Discharge	-15℃～50℃(5℉～122℉)
	Charge	-10℃～50℃(14℉～122℉)
	Storage	-20℃～50℃(-4℉～122℉)
Float charging voltage(25℃)		13.60 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 14.90V Temperature compensation: -30mV/℃
Maximum charging current		2.7A
Terminal material		Copper
Maximum discharge current		135A(5 sec.)
Designed floating life(20℃)		3~5 years

◆ Absorbent glass mat technology;

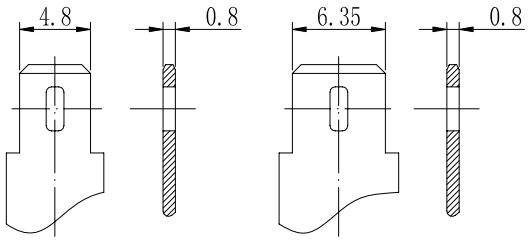
◆ Recognized by RoHs & CE;

◆ ABS container.

Dimensions



Terminal



Terminal T1 Terminal T2

Constant Current Discharge Characteristics (A, 25℃)

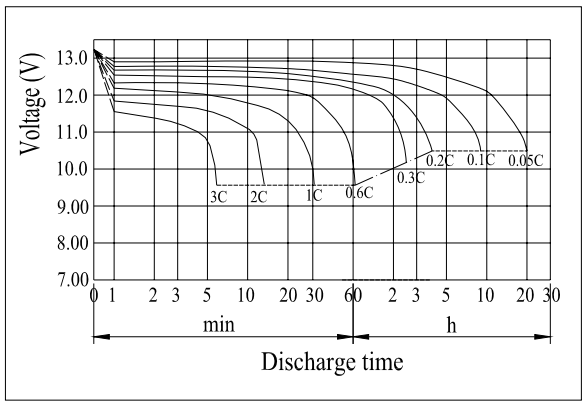
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	34.9	22.0	17.3	9.64	5.91	3.20	2.30	1.84	1.56	0.85	0.46
9.90V	33.8	21.4	16.9	9.44	5.82	3.18	2.28	1.83	1.55	0.85	0.45
10.2V	32.4	20.5	16.2	9.15	5.67	3.15	2.27	1.81	1.54	0.84	0.45
10.5V	31.0	19.6	15.7	8.93	5.56	3.10	2.25	1.80	1.53	0.84	0.45
10.8V	29.3	18.5	14.9	8.60	5.39	3.02	2.18	1.75	1.48	0.82	0.44

Constant Power Discharge Characteristics (Watt, 25℃)

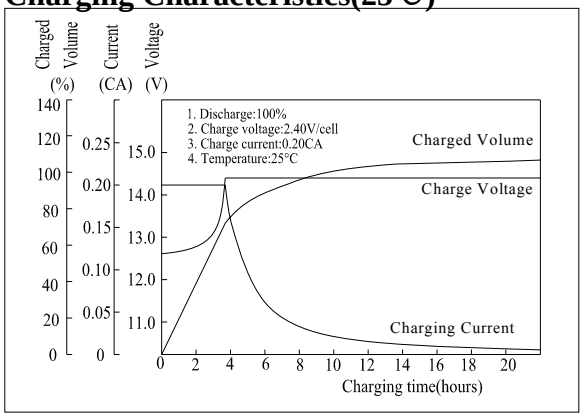
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	389	249	197	110	68.4	37.4	27.3	21.9	18.6	10.2	5.48
9.90V	378	241	192	108	67.4	37.2	27.1	21.7	18.5	10.2	5.46
10.2V	362	231	185	105	65.7	36.9	26.9	21.6	18.4	10.1	5.43
10.5V	346	221	179	102	64.4	36.3	26.7	21.4	18.3	10.0	5.40
10.8V	327	209	169	98.6	62.4	35.4	25.9	20.8	17.7	9.84	5.29

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

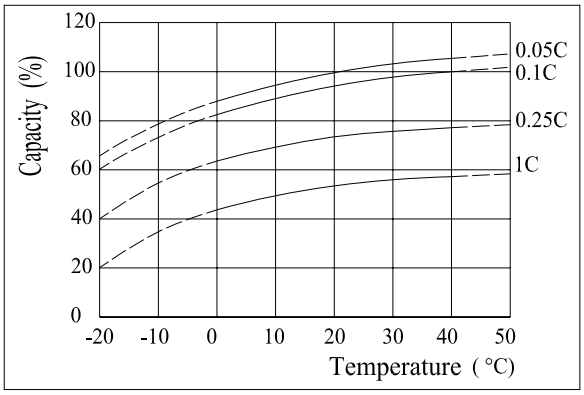
Discharge Characteristics(25℃)



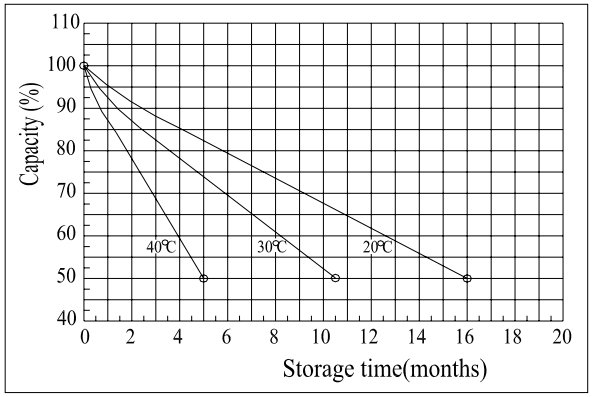
Charging Characteristics(25℃)



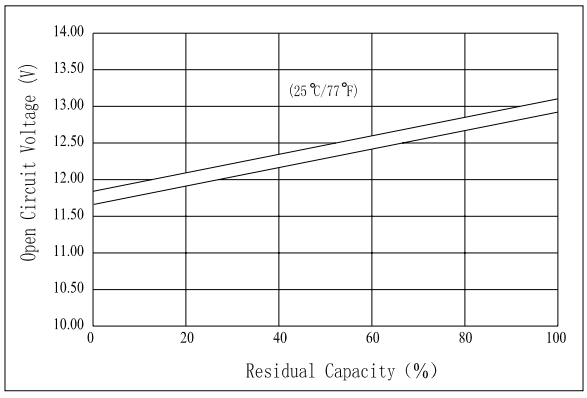
Effect of Temperature on Capacity



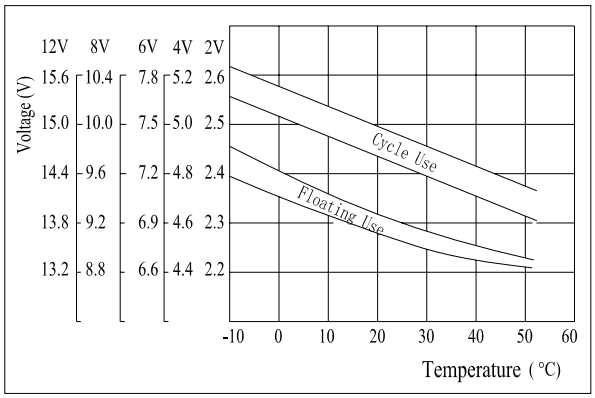
Self-discharge Characteristics



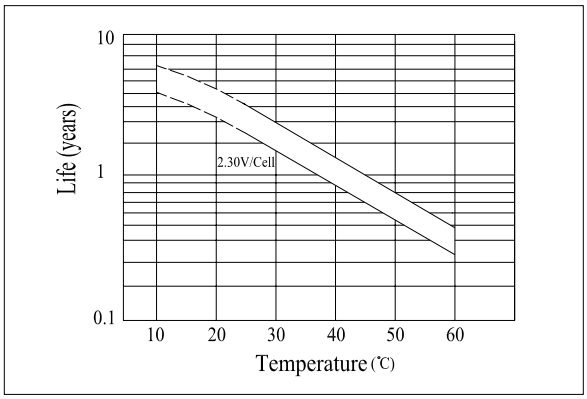
The Relationship for Open Circuit Voltage and Residual Capacity (25℃)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25℃)