



12V 9Ah F2

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	9.0AH	
Dimension	Length	151 $\pm$ 1mm (5.95 inches)
	Width	65 $\pm$ 1mm (2.56inches)
	Container Height	94.5 $\pm$ 1mm (3.72inches)
	Total Height (with Terminal)	100 $\pm$ 1mm (3.94inches)
Approx Weight	Approx 2.5 kg (5.5lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	9.20 AH/0.46A	(20hr,1.75V/cell,25°C/77°F)
	9.00 AH/0.90A	(10hr,1.75V/cell,25°C/77°F)
	7.90 AH/1.58A	(5hr,1.75V/cell,25°C/77°F)
	6.96 AH/2.32A	(3hr,1.75V/cell,25°C/77°F)
	5.66 AH/5.66A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	134A (5s)	
Internal Resistance	Approx 1 9mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
Nominal Operating Temp. Range	Storage : -15~40°C (5~104°F)	
	25 $\pm$ 3°C (77 $\pm$ 5°F)	
Cycle Use	Initial Charging Current less than 2.7A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104 °F)	103%
	25°C (77 °F)	100%
	0°C (32 °F)	86%
Self Discharge	batterys may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto controlsystem

ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS	CCC	PV Battery

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V/cell	27.564	19.558	14.766	9.579	5.368	2.248	1.546	0.887	0.459
1.75V/cell	28.349	20.264	15.064	9.765	5.580	2.325	1.581	0.902	0.465
1.70V/cell	30.314	21.495	15.660	9.905	5.602	2.348	1.606	0.921	0.477
1.65V/cell	31.132	21.928	16.057	9.998	5.630	2.383	1.636	0.944	0.493
1.60V/cell	32.736	22.794	16.554	9.951	5.669	2.441	1.692	0.983	0.512

Constant Power Discharge (Watts) at 25 °C (77°F)

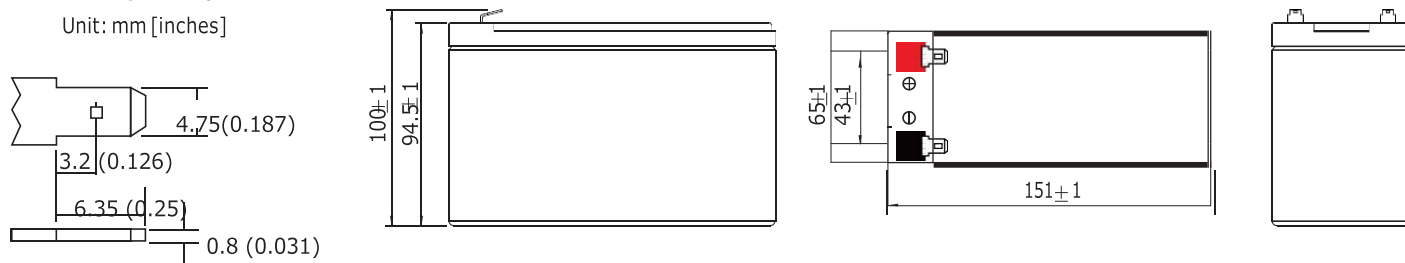
F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V/cell	49.201	35.419	27.288	17.779	10.001	4.216	2.933	1.742	0.905
1.75V/cell	51.482	37.002	28.095	18.348	10.502	4.394	3.026	1.786	0.925
1.70V/cell	55.565	39.723	29.457	18.769	10.695	4.502	3.113	1.846	0.956
1.65V/cell	57.438	40.808	30.557	19.155	10.286	4.614	3.201	1.915	1.004
1.60V/cell	60.627	42.739	31.701	19.225	11.044	4.765	3.333	2.017	1.056

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

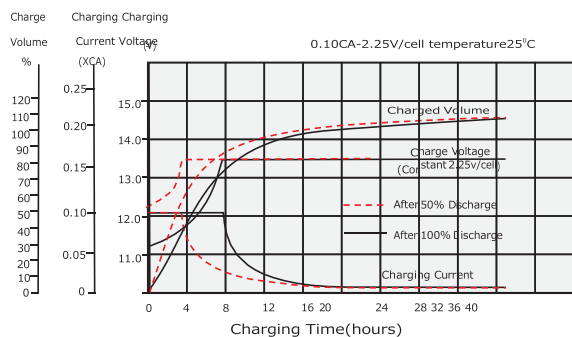
Dimensions

T1 Terminal

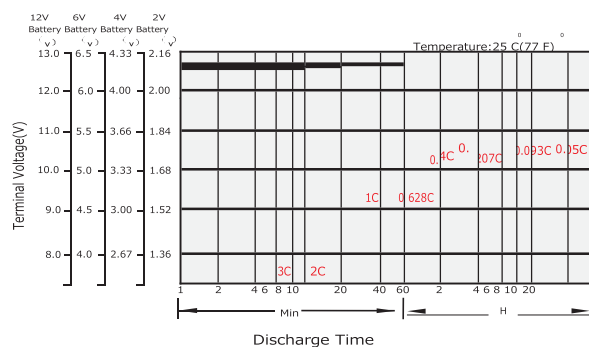
Unit: mm [inches]



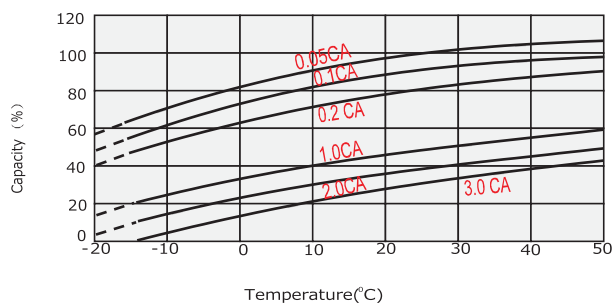
Float Charging Characteristics



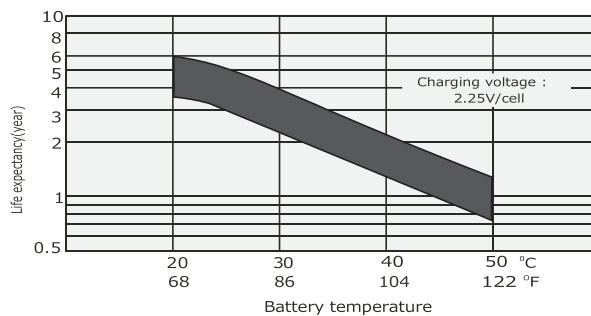
Discharge Characteristics



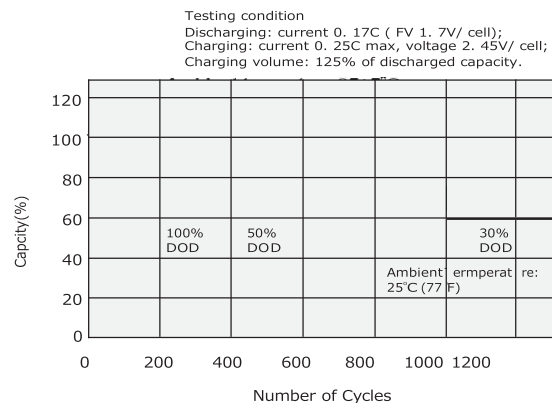
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

