



Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	12AH	
Dimension	Length	152 ±1mm
	Width	99±1mm
	Container Height	95 ±1mm
	Total Height (with Terminal)	100 ±1mm
Approx Weight	Approx 3.3kg	
Terminal	F1	
Container Material	ABS	
Rated Capacity	12AH/0.60A	(20hr , 1.80V/cell,25°C/77°F)
	11.8AH/1.18A	(10hr, 1.75V/cell,25°C/77°F)
	11AH/2.20A	(5hr, 1.75V/cell,25°C/77°F)
	9.66AH/3.20A	(3hr, 1.75V/cell,25°C/77°F)
	7.45AH/7.45A	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	180A (5s)	
Internal Resistance	Approx 17mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current less than 3.6 A.Voltage	
	14.6V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.6V~13.7V at 25°C(77°F)Temp. Coefficient t -20mV/°C	
Capacity affectedby Temperature	40°C (104 °F)	103%
	25°C (77 °F)	100%
	0°C (32 °F)	86%
Self Discharge	Global Power batteries may be stored for up to 6months at 25°C(77°F)and battery should be recharge before use . For higher temperatures the time interval will be shorter.	

Applications

- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System(EPS)
- ◆ Emergency backup Power Supply
- ◆ Alarm and security system
- ◆ Electronic Apparatus and equipment
- ◆ Communication Power Supply

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

F.V/time	5min	10min	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.60V	43.70	28.42	21.50	12.80	7.45	5.45	4.58	3.27	2.23	1.53	1.25	0.68
1.67V	38.80	26.53	20.38	12.53	7.40	5.40	4.56	3.25	2.22	1.52	1.23	0.65
1.70V	36.73	25.58	19.88	12.42	7.34	5.39	4.55	3.24	2.22	1.50	1.21	0.63
1.75V	29.70	22.45	18.26	11.92	7.18	5.29	4.49	3.20	2.20	1.48	1.18	0.24
1.80V	28.56	22.63	18.28	11.78	7.10	5.25	4.47	3.19	2.19	1.47	1.78	0.60
1.85V	26.15	20.83	17.31	11.60	7.07	5.23	4.45	3.17	2.16	1.46	1.16	0.58

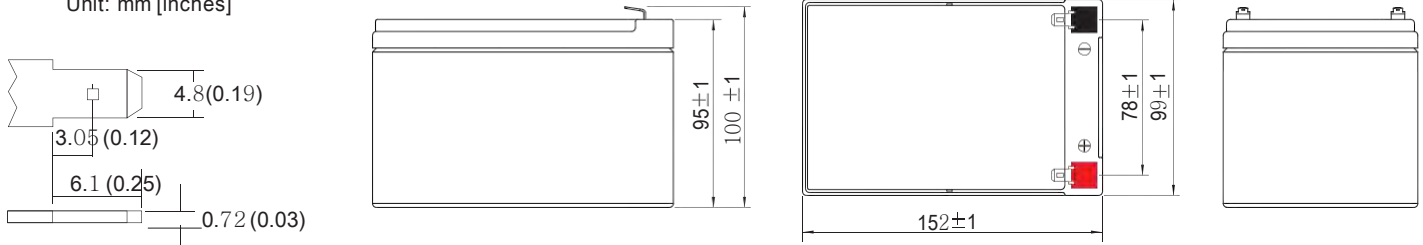
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/time	5min	10min	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.60V	80.83	54.26	41.50	25.50	14.86	10.89	9.17	6.53	4.46	3.06	2.491	1.363
1.67V	71.74	50.63	39.37	24.97	14.76	10.78	9.13	6.51	4.44	3.04	2.458	1.298
1.70V	67.93	48.85	38.43	24.75	14.67	10.78	9.12	6.50	4.44	3.01	2.428	1.264
1.75V	61.48	45.98	36.85	24.33	14.49	10.65	9.06	6.46	4.42	3.00	2.409	1.245
1.80V	54.94	42.90	35.39	23.79	14.40	10.60	9.00	6.43	4.41	2.98	2.372	1.205
1.85V	48.40	39.83	33.58	23.16	14.20	10.50	8.93	6.38	4.39	2.95	2.335	1.165

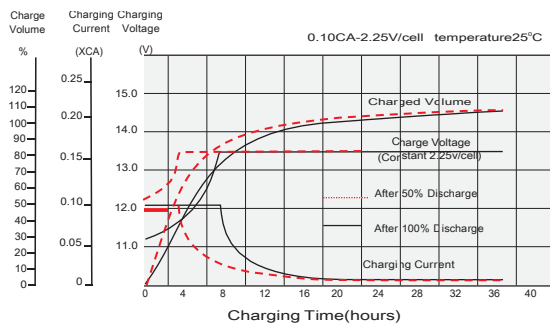
Dimensions

F1 Terminal

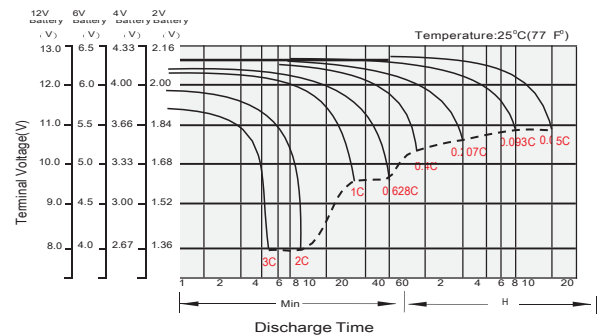
Unit: mm [inches]



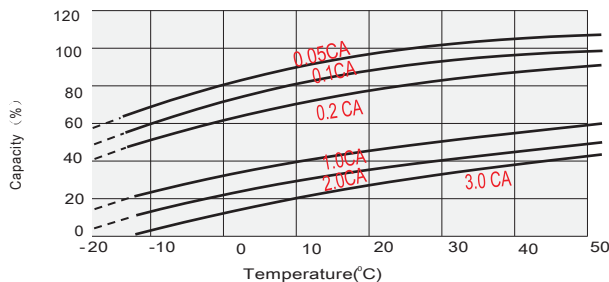
Float Charging Characteristics



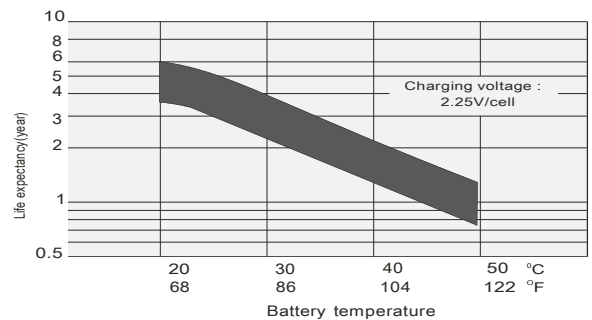
Discharge Characteristics



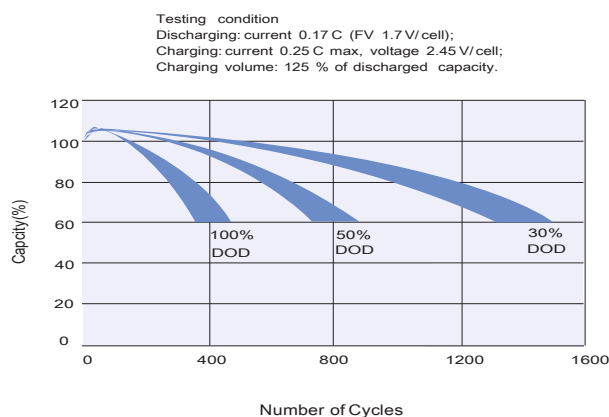
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

