

ACE113



General Features

- Designed floating charging service life: 8 years (25°C)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

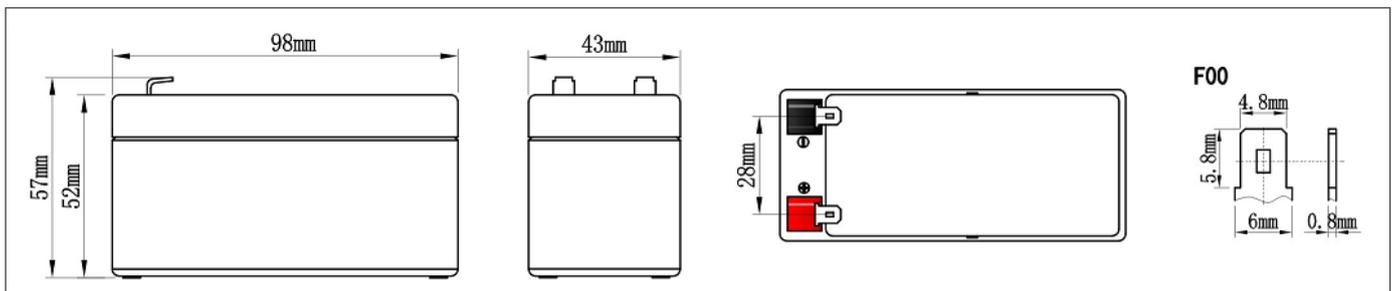
Application

- DC power supply
- Medical equipment
- UPS/EPS power supply
- Emergency lighting systems
- Alarm and security systems

Physical Specifications

Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	1.2AH	98±2mm	43±1mm	52±2mm	57±2mm	Approx0.50kg (1.102lbs)	≈160 mΩ	F00 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (0.06A)	1.22AH
10 hour rate (0.12A)	1.11AH
5 hour rate (0.204A)	1.02AH
27 minute rate (1.2A)	0.54AH
7 minute rate (3.6A)	0.42AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Limit initial current less than 0.325A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.0072A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 0.3A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

NOTE : The battery should be charged within 6 months of storage. Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	3.19	2.49	1.27	0.901	0.718	0.583	0.447	0.336	0.216	0.147	0.115	0.063
9.9V	3.04	2.38	1.21	0.870	0.701	0.568	0.436	0.328	0.211	0.144	0.114	0.063
10.2V	2.90	2.27	1.16	0.841	0.684	0.554	0.425	0.320	0.206	0.141	0.113	0.062
10.5V	2.87	2.25	1.15	0.832	0.684	0.548	0.412	0.311	0.203	0.140	0.112	0.061
10.8V	2.84	2.22	1.14	0.823	0.675	0.536	0.398	0.302	0.199	0.138	0.111	0.060
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	38.5	31.1	17.6	12.5	9.29	7.14	5.37	3.82	2.52	1.76	1.39	0.752
9.9V	36.7	29.7	16.8	12.0	9.10	6.96	5.24	3.73	2.47	1.73	1.38	0.745
10.2V	35.0	28.3	15.9	11.7	8.86	6.79	5.12	3.64	2.40	1.69	1.37	0.737
10.5V	33.8	27.4	15.7	11.4	8.72	6.69	5.03	3.57	2.38	1.68	1.35	0.727
10.8V	32.5	26.6	15.2	11.1	8.57	6.59	4.96	3.51	2.35	1.67	1.33	0.717

Performance Characteristics

