

ACE240



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
- Wide operating temperature range from 0°C~40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

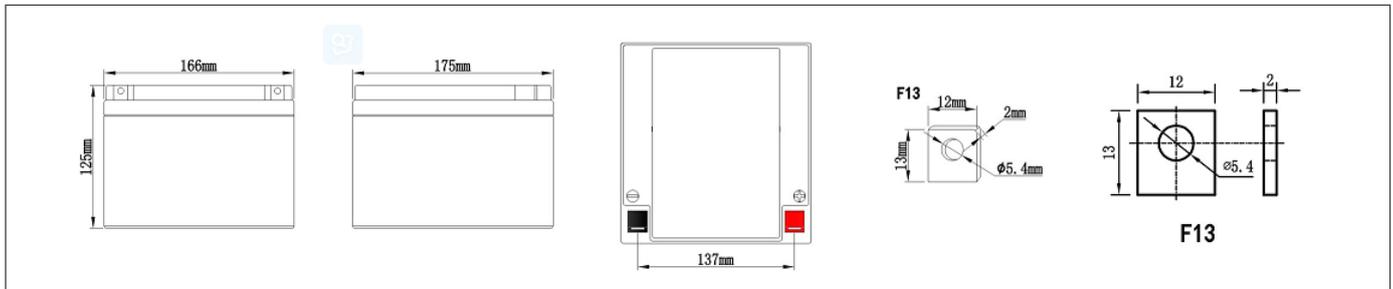
Application

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

Physical Specifications

Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	24AH	166±2mm	175±2mm	125±2mm	125±2mm	Approx 7.40kg (16.31lbs)	≈14 mΩ	F13 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (1.20A)	25.60AH
10 hour rate (2.40A)	23.90AH
5 hour rate (4.08A)	21.50AH
27 minute rate (24A)	12.00AH
7 minute rate (72A)	8.40AH
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 6.0A.
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 0.144A 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 6.0A 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	66.9	52.4	26.8	18.9	15.9	12.6	9.40	7.09	4.54	3.01	2.50	1.33
9.9V	63.7	49.9	25.5	18.2	15.5	12.3	9.17	6.92	4.43	2.95	2.47	1.31
10.2V	60.7	47.5	24.3	17.6	15.1	12.0	8.95	6.75	4.32	2.89	2.45	1.30
10.5V	60.2	47.1	24.1	17.4	15.0	11.8	8.61	6.54	4.25	2.87	2.43	1.28
10.8V	59.5	46.6	23.8	17.1	14.9	11.6	8.27	6.31	4.16	2.84	2.39	1.26
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	778	631	356	252	188	144	109	77.5	51.1	35.6	28.3	15.2
9.9V	741	601	339	243	184	141	106	75.6	49.8	34.9	28.0	15.1
10.2V	706	572	323	235	179	137	103	73.7	48.6	34.2	27.7	14.9
10.5V	683	555	316	230	176	135	102	72.1	48.0	34.0	27.3	14.7
10.8V	657	537	307	224	173	133	100	70.8	47.5	33.6	26.8	14.5

Performance Characteristics

