BUDDY GEL BATTERY

12V SERIES —

Product Manual

12V Series Valve Regulated Sealed Gel Battery Features

Unique structural design, so that the current distribution is uniform, excellent electrical conductivity, battery internal resistance
Low, effectively avoid thermal runaway

- Unique plate grid alloy material, minimize plate grid corrosion, prolong battery life

- Unique active substance formula, so that the battery has excellent high and low temperature resistance and charging capacity.Charge acceptance ability

- Nano-colloidal electrolyte has wider temperature adaptability to ensure safety and reliability.Strong recovery from deep discharge, good cycling performance and float charging life.

ISO9001
ISO14001
ISO45001

Main application areas

01

Automatic alarm, signaling, security systems

02

Instrumentation, automatic control systems

03

Power Remote and Uninterruptible Power Systems

04

Fire control systems

05

General uninterruptible power supply systems

06

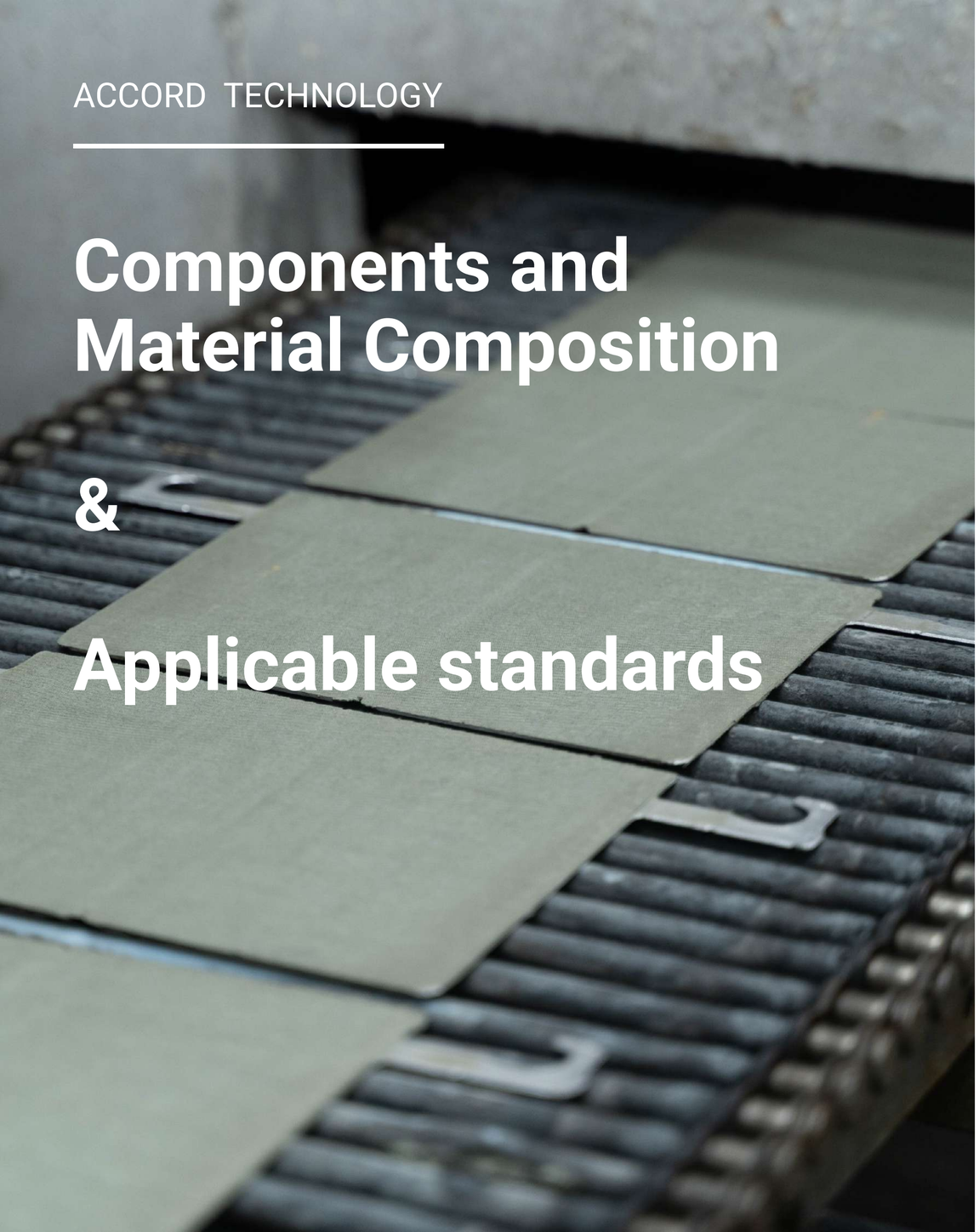
Centralized Large Server Room Power System

07

Distributed Small Server Room Power Systems

08

Power supply systems for power tools



ACCORD TECHNOLOGY

Components and Material Composition

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Applicable standards

1 Components and Material Composition

- Components ..... Materials
- Positive plate ..... Lead dioxide
- Negative Plate ..... Sponge lead
- Battery Cases ..... .ABS Engineering Plastic
- Safety valves ..... Fluorinated rubber
- Wiring Terminals ..... Inline Copper Terminals
- Spacer ..... .PVC-SiO2 curved corrugated
- Electrolytes ..... Nanocolloid

2 Applicable standards

- GB/T 19638.1—2014
- YD/T 799—2010
- DL/T 637—2019
- IEC 60896-21&22—2004

Design standard

Design life

Greater than 10 years

Operating temperature range

Charging Temperature:-20℃ ~ 40℃
Discharge Temperature:-40℃ ~ 60℃
Storage Temperature:-15℃ ~ 40℃

Effect of temperature on capacity

40℃ 105% ; 25℃ 100%; 0℃ 86%;
—20℃ 70%

Float Charge Voltage

13.20V ~ 13.70V;
Recommended: 13.50V

Equalizing voltage

13.80V ~ 14.40V; Recommended: 14.10V

Recycling Charging Voltage

14.40V ~ 15.00V; Recommended: 14.50V

Temperature compensation factor for float use

-20mV/℃

Temperature compensation coefficients

-30mV/℃

Maximum charging current

≤0.25C10A

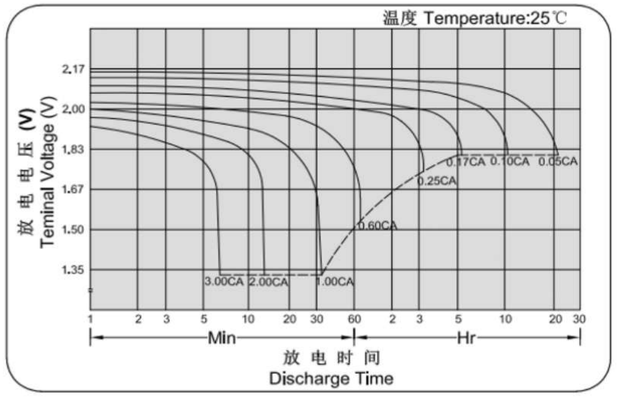
Monthly self-discharge rate

≤2%（20℃）

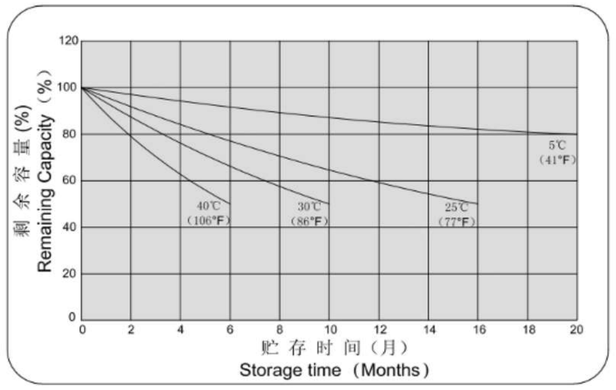
Shell material

Flame retardant ABS (V0)

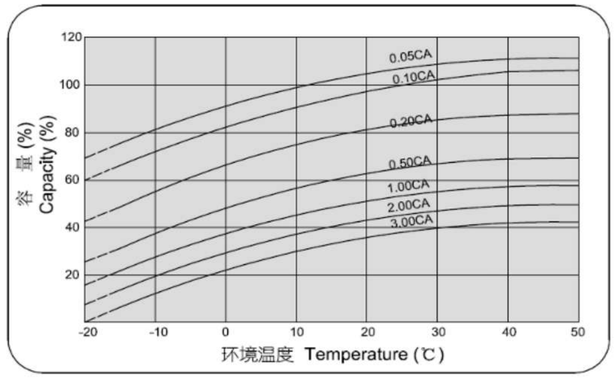
Characteristic curve



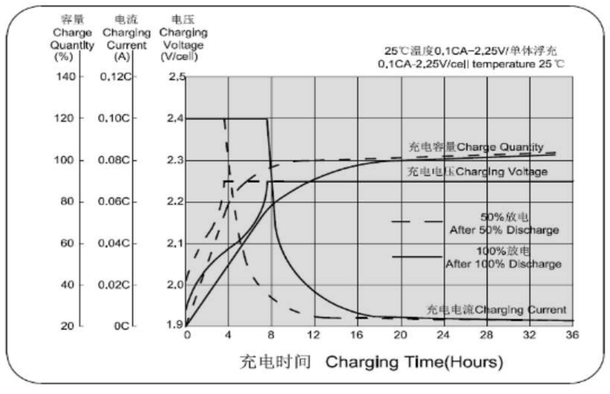
Terminal Voltage (V) and Discharge Time



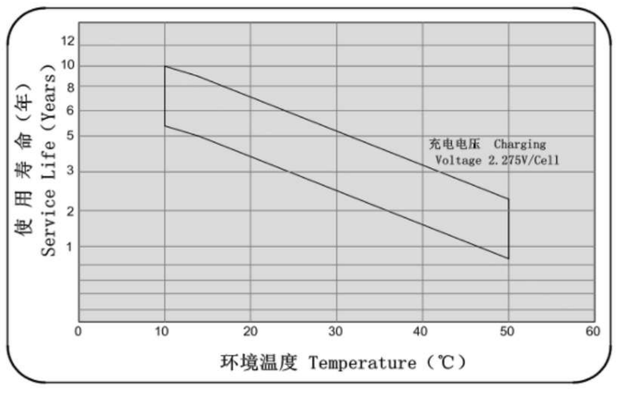
Capacity Retention Characteristic



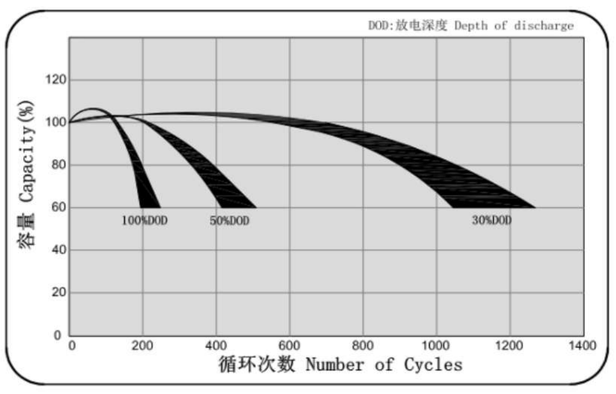
Temperature Effects in Relation to Battery Capacity



Float Charging Characteristics



Effect of Temperature on Float Life



Cycle Life Relation to Depth of Discharge

Series model technical parameters

Battery type	Rated voltag Voltage(V)	Rated Capacity C10(Ah)	Overall dimensions (mm)				Reference weight (kg)	Terminal Model
			L	W	H	LH		
6-GFMJ-24	12	24	165	125	173	173	7.4	φ16-M6
6-GFMJ-38	12	38	197	166	173	173	12.8	φ16-M6
6-GFMJ-50	12	50	260	134	204	210	16.0	φ16-M6
6-GFMJ-60	12	60	350	165	173	173	18.3	φ16-M6
6-GFMJ-70	12	70	350	165	173	173	21.2	φ16-M6
6-GFMJ-80	12	80	330	172	215	221	25.0	φ18-M8
6-GFMJ-95	12	95	330	172	215	221	26.0	φ18-M8
6-GFMJ-100	12	100	407	173	208	232	29.7	φ18-M8
6-GFMJ-110	12	110	407	173	208	232	32.3	φ18-M8
6-GFMJ-120	12	120	407	173	208	232	35.0	φ18-M8
6-GFMJ-125	12	125	480	170	239	242	35.7	φ20-M8
6-GFMJ-135	12	135	480	170	239	242	38.0	φ20-M8
6-GFMJ-150	12	150	480	170	239	242	42.0	φ20-M8
6-GFMJ-155	12	155	480	170	239	242	45.0	φ20-M8
6-GFMJ-170	12	170	533	207	220	228	50.0	φ18-M8
6-GFMJ-180	12	180	533	207	220	228	52.5	φ18-M8
6-GFMJ-190	12	190	522	239	220	228	56.5	φ18-M8
6-GFMJ-200	12	200	522	239	220	228	61.0	φ18-M8
6-GFMJ-230	12	230	522	239	220	228	66.0	φ18-M8
6-GFMJ-250	12	250	520	268	220	226	76.5	φ18-M8

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THANKS

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