Lead Acid 12V VRLA UPS Battery

ALA-FT 150 Ah Series

- **AGM VRLA sealing technology**
- **Front Terminal**
- **12 years lifetime at +25 °C**
- **High energy density and operational reliability**
- **Compatible with standard telecom equipment**
- **High strength, flame resistant ABS container**
- **High discharge performance**
- **Easy to install**
- **Flexible design**

Ascent's ALA series Front Terminal Lead Acid 12V 150Ah VRLA UPS batteries are widely used in standby power applications for telecommunications, UPS, military, broadcast, and television system purposes.

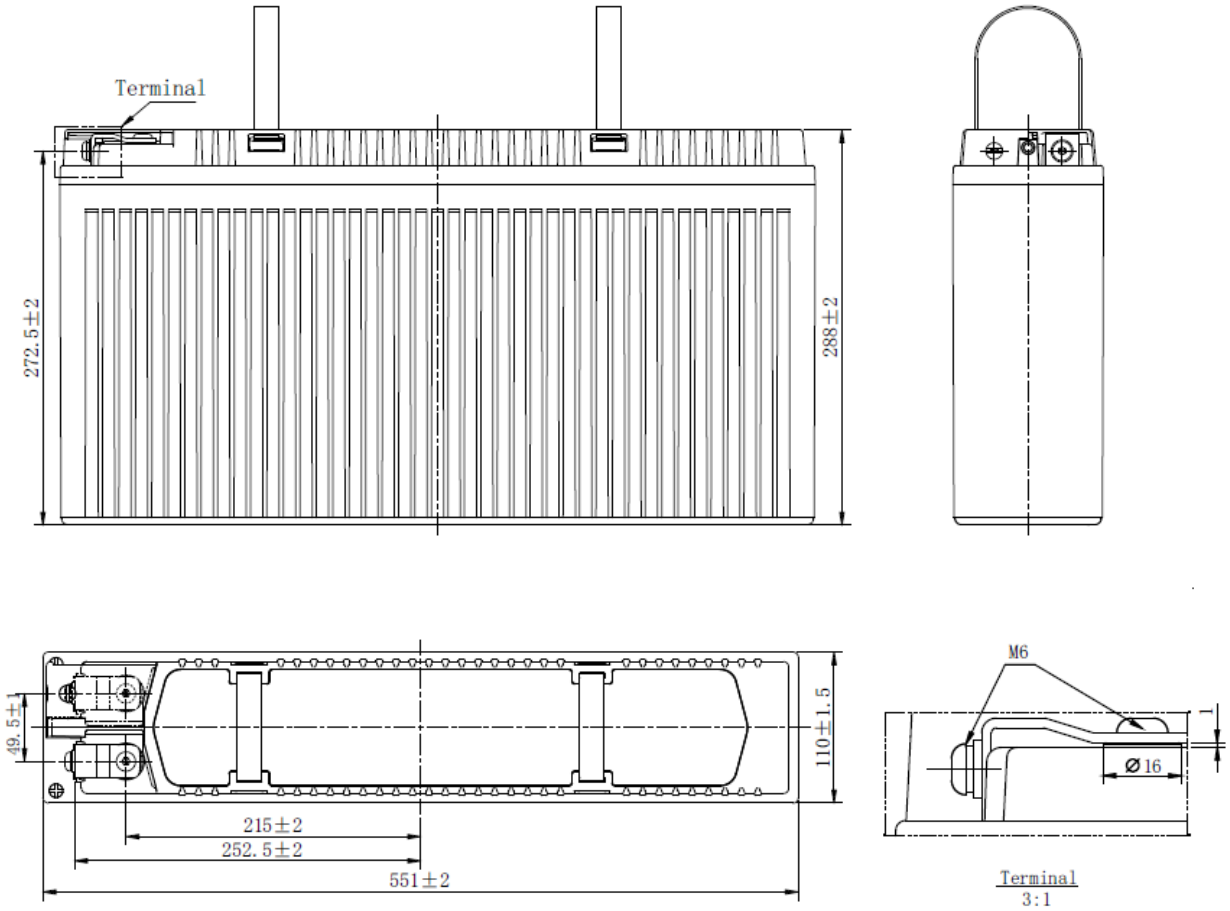
ALA UPS batteries feature precise ABS heat sealing technology between container and lid and a patented post-seal structure. The ABS container uses flame resistant material and horizontal installation design makes ALA FT series popular product for standard 23" cabinet with extra safety, easier installation and convenient maintenance. ALA series is specially designed for Telecom, UPS as a premium low self-discharge battery.

These batteries are highly reliable making them ideal for backup power generation. The design life for these batteries is 12 years at +25 °C. They feature a flexible lightweight design, and have a strong degree of environmental adaptability.

Key Features

- Front Terminal AGM VRLA sealing technology
- High discharge performance
- Highly corrosion resistance
- Multi-alloy grid
- Special exhaust structure
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

Application Diagram



Specifications

Item	Description
Nominal Voltage	12V
Nominal Capacity	150 Ah @ 10hr to 1.80V/cell @ 25 °C
Weight	Approx. 46.0 kg
Internal Resistance (fully charged)	Approx.4.0 mΩ @ 25 °C
Maximum Discharge Current	1500 A (5 sec)
Self-Discharge @ 25 °C	Less than 8 % after 90 days storage
Operating Temperature Range	Discharge: -40 °C to 55 °C
	Charge: -20 °C to 45 °C
	Storage: -20 °C to 50 °C
Operating Temperature	20 °C to 25 °C
Maximum Charging Current	37.5 A
Charging Voltage	Float: 2.23V/cell, Temps coefficient - 20mV/ °C
	Cycle: 2.35V/cell
Container Materials	ABS (UL94-V0)
Terminal	M6 (Embedded copper core terminal)
Capacity Affected by Temperature	105% @ +40 °C
	85% @ 0 °C
	60% @ -20 °C

Discharge Data

Constant Current Discharge Data (+25 °C, A)

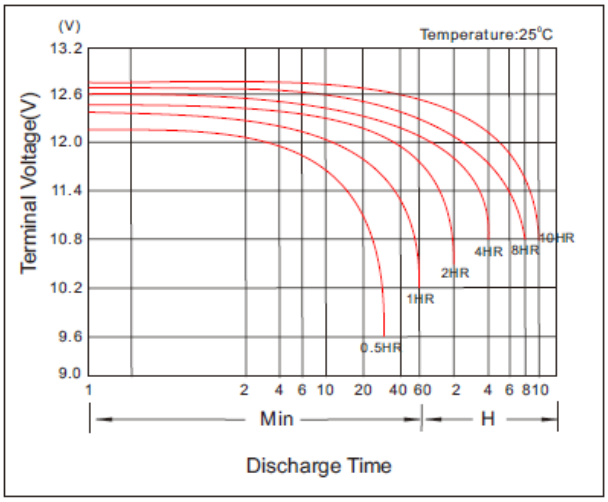
End Volt	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.70	154.7	94.0	56.5	40.9	32.3	26.8	18.7	15.5	13.6	8.2
1.75	148.1	90.7	54.7	39.8	31.5	26.3	18.3	15.2	13.4	8.1
1.80	141.7	87.5	53.1	38.7	30.7	25.7	18.0	15.0	13.2	8.0
1.85	125.4	79.0	48.8	35.8	28.5	23.8	16.8	14.1	12.4	7.5
1.90	108.3	70.6	44.4	32.8	26.2	22.0	15.6	13.1	11.6	7.1

Constant Power Discharge Data (+25 °C, W/cell)

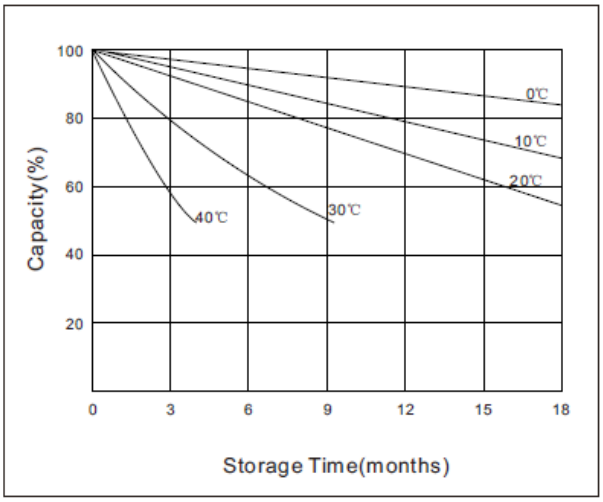
End Volt	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.70V	291.3	179.0	105.6	79.2	62.8	52.4	36.6	30.5	26.8	16.2
1.75V	281.5	173.9	102.9	77.3	61.5	51.4	36.1	30.1	26.4	16.0
1.80V	271.7	168.9	100.4	75.6	60.2	50.4	35.5	29.6	26.0	15.8
1.85V	242.3	153.6	92.7	70.2	56.0	46.9	33.2	27.8	24.6	15.0
1.90V	211.1	138.1	84.8	64.6	51.7	43.4	30.9	25.9	23.1	14.1

Performance Curves

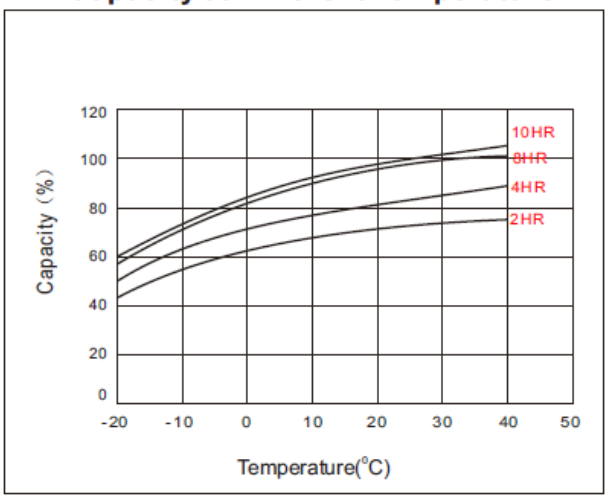
Discharge Characteristics



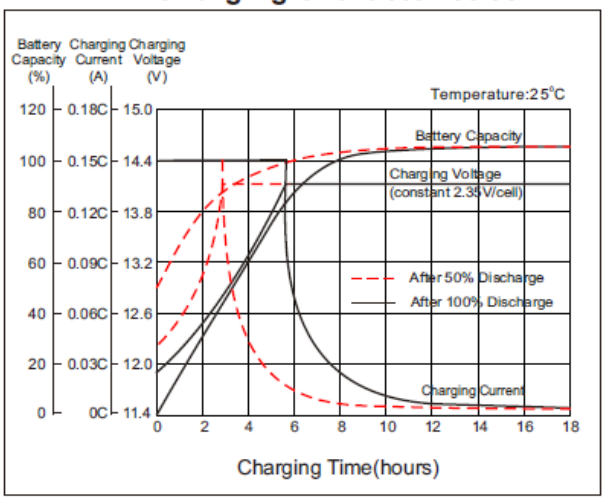
Self-discharge Characteristics



Capacity at Different Temperature



Charging Characteristics



Certifications and Standards

Certificates

- ISO9001(00113Q25609R3L)
- ISO14001(05513E10053R3L)
- OHSAS18001(00114S20416R1M)
- CE(EN61000-6-3)
- Intertek ETL SEMKO UL(MH26866)

Standards

- IEC60896
- GB/T 19638.2
- YD/T 799
- YD/T 2343

Ordering Information

Item	Description
ALA-FT-150-12R	ALA FT Series Front Terminal Lead Acid VRLA UPS battery 12 V, 150 Ah, for telecom UPS system backup application

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