

Overview

The new VISION UNA series batteries are designed for UPS Standby Power Applications requiring high power output. Computer designed grids and optimized plate paste formula produce high energy density and long lasting uninterrupted power for critical systems.

Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid



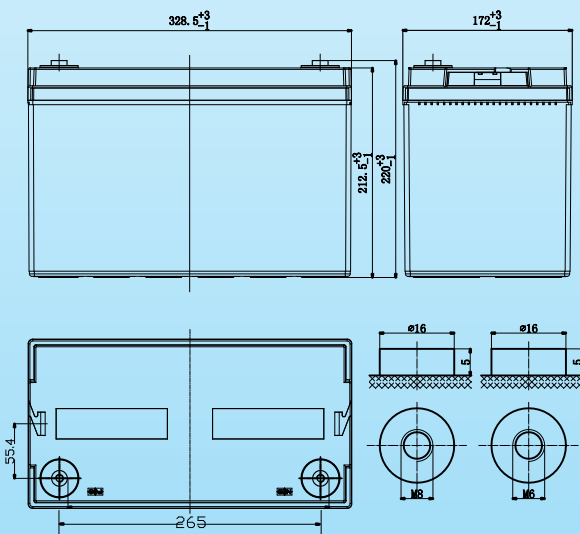
General Features

- Positive and negative plates in lead-calcium-tin alloy;
- Superior energy density;
- Operate at a low internal pressure;
- Gas recombination;
- Special separator technology;
- A recognized component of ULJ EC,TLC.etc;
- Case and cover available in both standard and flame retardant ABS(UL 94-FV0);
- Very high power output for 5 to 15 minutes supply;
- Six months shelf life at 20 °C;
- Design life :12 years at 20 °C;
- Recommended loading 1h and below.

Dimensions and Weight

Length(mm / inch)	328.5/12.94
Width(mm / inch)	172/6.78
Height(mm / inch)	212.5/8.37
Total Height(mm / inch)	220/8.67
Approx. Weight(Kg / lbs)	32.3/71.2

* Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F (25°C)	
15 min wattage @1.67 VPC	420W/cell
20 hour rate (5.3A, 10.5V)	106Ah
10 hour rate (10.0A,10.8V)	100Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	≤4.2 mOhms
Self-Discharge	
3% of capacity declined per month at 20°C	
(average) Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F (25°C)	820A(5s)
Charge Methods: Constant Voltage Charge 77°F (25°C) Cycle use	2.40-2.45VPC
Maximum charging current	30 A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point Vdts/Cell	5min	10min	15min	20min	25min	30min	1h	1.5h	2h	3h	5h	10h	20h
1.60V	444	317	240	190	176	160	86.1	69.9	55.3	33.8	21.0	10.8	5.45
1.67V	434	295	225	178	159	152	79.8	67.5	53.5	33.0	20.6	10.6	5.40
1.70V	411	280	210	167	151	140	77.7	65.7	51.0	32.2	20.0	10.4	5.35
1.75V	390	267	200	162	145	135	74.6	63.5	49.8	31.4	19.5	10.2	5.30
1.80V	365	250	191	156	141	127	72.5	61.0	48.8	30.5	19.0	10.0	5.25

Discharge Constant Power (Watts at 77°F25°C)

End Point Vdts/Cell	5min	10min	15min	20min	25min	30min	1h	1.5h	2h	3h	5h	10h	20h
1.60V	800	568	437	348	315	292	161	127	100	61.9	38.7	20.0	10.6
1.67V	751	538	420	335	302	285	154	124	98.5	60.5	37.7	19.4	10.4
1.70V	711	508	395	323	289	272	151	120	96.7	59.3	37.0	19.0	10.3
1.75V	667	477	372	303	273	260	147	116	95.0	58.5	36.7	18.8	10.1
1.80V	627	454	349	290	261	251	143	112	93.5	57.4	35.6	18.5	9.95

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values. All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.

