

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



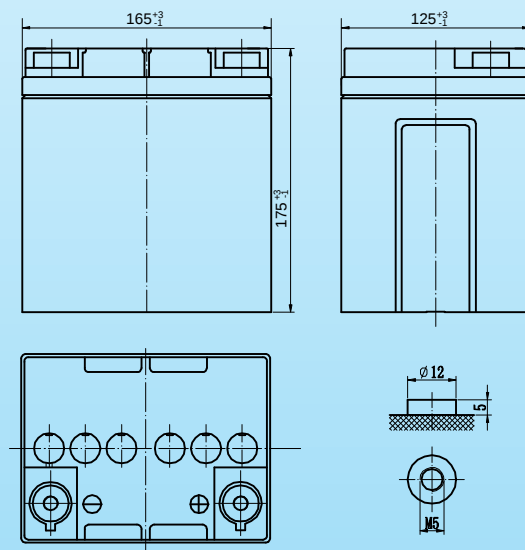
General Features

- 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)	165 / 6.50
Width(mm / inch)	125 / 4.92
Height(mm / inch)	175 / 6.89
Total Height(mm / inch)	175 / 6.89
Approx. Weight(Kg / lbs)	9.60 / 21.2

* Weight deviation: ± 5%



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	115W/cell
20 hour rate (1.40A , 10.5V)	28.0Ah
10 hour rate (2.60A , 10.8V)	26.0Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	≤8.0 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)	260A(5s)
Charge Methods: Constant Voltage Charge 77°F (25°C) Cycle use	2.40-2.45VPC
Maximum charging current	8.4A
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	1hr	1.5h	2h	3h	5h	10h	20h
1.60V	125	87.5	67.3	54.5	46.8	41.7	23.5	15.7	11.3	8.33	5.70	2.70	1.43
1.67V	117	82.7	63.8	51.7	44.4	39.6	22.4	15.3	11.0	8.07	5.55	2.68	1.42
1.70V	110	78.0	60.3	48.9	42.0	37.4	21.4	14.9	10.8	7.99	5.42	2.65	1.41
1.75V	103	73.2	56.8	46.1	39.6	35.3	20.3	14.4	10.5	7.80	5.35	2.63	1.40
1.80V	98.2	70.5	54.8	44.6	38.5	34.4	19.8	14.0	10.3	7.61	5.21	2.60	1.39

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

End Point Vdts/Cell	5min	10min	15min	20min	25min	30min	1hr	1.5h	2h	3h	5h	10h	20h
1.60V	229	155	118	95.3	81.7	72.6	43.5	28.7	21.9	15.7	10.4	5.00	2.78
1.67V	219	149	115	92.1	79.0	70.3	42.3	28.1	21.2	15.5	10.3	4.98	2.71
1.70V	210	144	110	89.0	76.3	67.9	41.1	27.5	20.7	15.3	10.1	4.96	2.69
1.75V	200	138	106	85.8	73.6	65.6	39.9	26.8	20.3	15.1	9.88	4.94	2.64
1.80V	190	132	102	82.6	71.0	63.2	38.7	26.1	20.0	14.9	9.79	4.92	2.59

(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.

