

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.

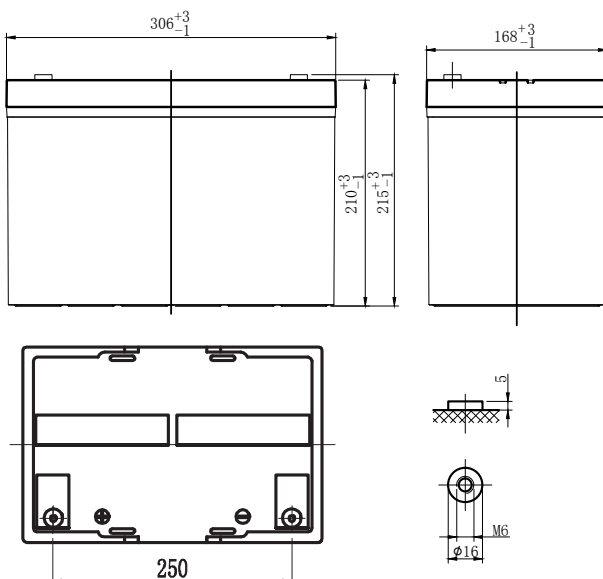
Battery Specification

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	390W/cell
20 hour rate (4.75A, 10.5V)	95.0Ah
10 hour rate (9.00A,10.8V)	90.0Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	≤4.4 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)	810A(5s)
Charge Methods: Constant Voltage Charge 77°F (25°C) Cycle use	2.40-2.45VPC
Maximum charging current	27.0A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

Dimensions and Weight

Length(mm / inch)	306/12.06
Width(mm / inch)	168/6.62
Height(mm / inch)	210/8.27
Total Height(mm / inch)	215/8.47
Approx. Weight(Kg / lbs)	29.2/64.4

* Weight deviation: ± 3%



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

End Point Vdts/Cell	5min	10min	15min	20min	25min	30min	1h	1.5h	2h	3h	5h	8h	10h	20h
1.60V	360	275	223	176	151	136	67.5	56.2	43.9	29.0	18.2	11.1	9.36	4.91
1.67V	324	258	213	167	146	128	64.7	55.6	43.2	28.6	17.9	11.0	9.27	4.86
1.70V	312	247	205	159	138	123	62.6	54.0	42.3	28.2	17.5	10.9	9.18	4.82
1.75V	300	236	197	153	134	117	59.5	52.2	41.5	27.9	17.1	10.8	9.09	4.75
1.80V	286	227	187	146	127	111	57.6	51.0	40.0	27.5	16.3	10.7	9.00	4.72

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

End Point Vdts/Cell	5min	10min	15min	20min	25min	30min	1h	1.5h	2h	3h	5h	8h	10h	20h
1.60V	654	497	395	303	280	235	124	102	80.0	53.7	34.5	21.1	17.8	9.58
1.67V	615	477	390	289	264	225	121	100	78.5	53.0	34.0	20.9	17.6	9.35
1.70V	585	463	365	280	254	216	115	98.2	76.8	52.2	33.0	20.7	17.4	9.28
1.75V	561	445	348	267	244	209	111	97.0	75.5	51.5	32.0	20.4	17.2	9.12
1.80V	538	428	333	257	238	200	103	96.0	74.8	50.9	31.0	20.2	17.0	8.95

(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.

