UNA12-200

12V 200W

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

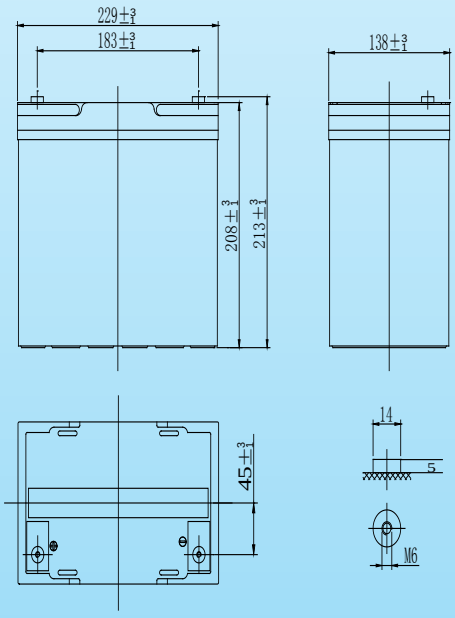
General Features

- 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 hight power output for 5 to 15 minutes supply;
- Six months shelf life at 20 ℃;
- Design life :12 years at 20 ℃;
- Recommended loading 1h and below.

Dimensions and Weight

Length(mm / inch)	229 / 9.02
Width(mm / inch)	138 / 5.43
Height(mm / inch)	208 / 8.19
Total Height(mm / inch)	213 / 8.39
Approx. Weight(Kg / lbs)	17.0 / 37.5

* Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77℉(25℃)	
15 min wattage @1.67 VPC	200W/cell
20 hour rate (2.90A, 10.5V)	58.0Ah
10 hour rate (5.50A,10.8V)	55.0Ah
Internal Resistance	
Fully Charged battery 77℉(25℃)	≤6.0 mOhms
Self-Discharge	
3% of capacity declined per month at 20℃(average)	
Operating Temperature Range	
Discharge	-20~60℃
Charge	-10~60℃
Storage	-20~60℃
Max. Discharge Current 77℉(25℃)	550A(5s)
Charge Methods: Constant Voltage Charge 77℉	
(25℃) Cycle use	2.40-2.45VPC
Maximum charging current	16.5 A
Temperature compensation	-30mV/℃
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/℃

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	236	159	119	96.0	84.1	69.8	40.6	30.8	22.3	15.6	11.0	5.72	3.00
1.67V	212	152	115	94.2	83.0	69.1	40.0	29.7	21.7	15.2	10.6	5.67	2.97
1.70V	203	147	113	92.9	82.2	68.3	39.9	29.3	21.0	14.8	10.3	5.61	2.94
1.75V	186	137	108	89.3	79.6	66.2	39.1	28.7	20.2	14.3	10.1	5.56	2.90
1.80V	160	122	99.0	82.7	77.4	62.7	37.8	28.0	19.6	13.8	9.90	5.50	2.89

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	374	267	204	168	149	125	72.8	53.5	41.8	30.1	20.5	10.9	5.86
1.67V	353	255	200	166	144	124	72.6	52.4	40.0	29.3	20.1	10.6	5.72
1.70V	337	248	196	163	142	122	72.5	51.7	39.5	28.5	19.7	10.5	5.67
1.75V	309	233	188	157	141	118	70.9	51.2	38.5	27.7	19.5	10.2	5.57
1.80V	281	215	177	147	135	113	69.1	50.8	37.3	26.0	19.3	10.0	5.47

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

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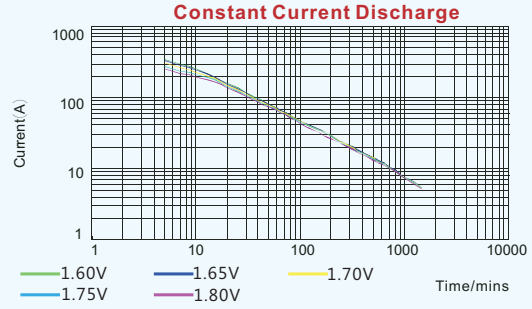
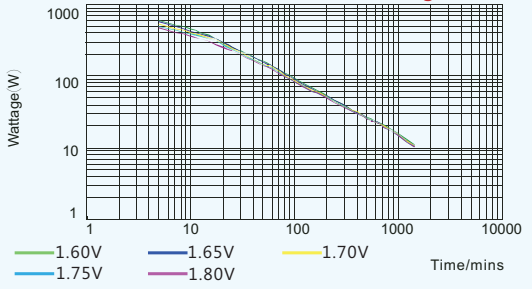
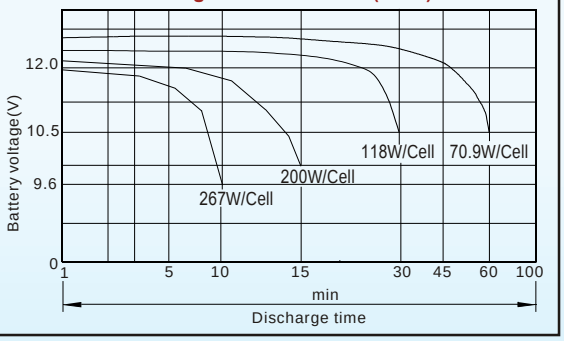
Constant Current Discharge



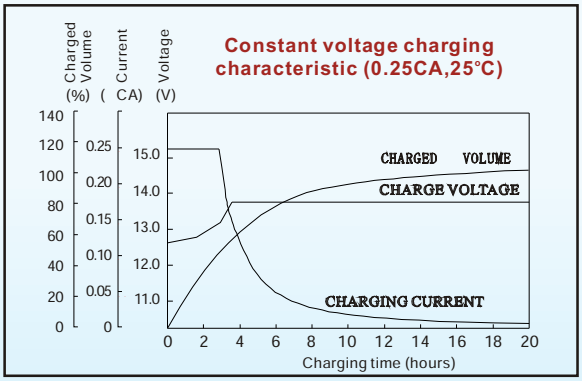
Constant Power Discharge



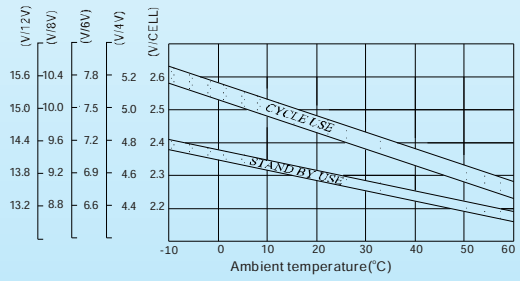
Discharge characteristic (25°C)



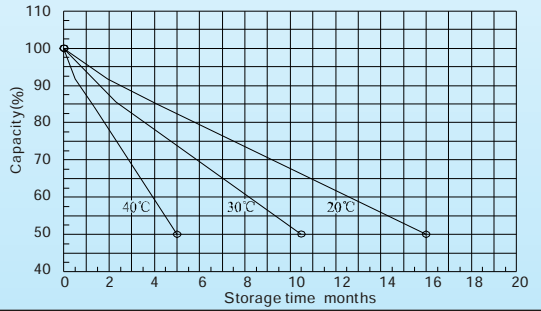
Constant voltage charging characteristic (0.25CA,25°C)



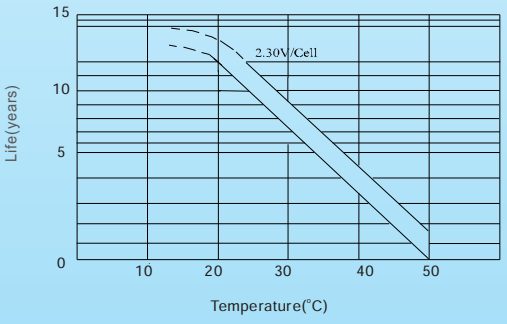
Relationship between charging voltage and temperature



Self-discharge characteristic



Temperature effects on float life



Life characteristics of Standby use