

### 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.

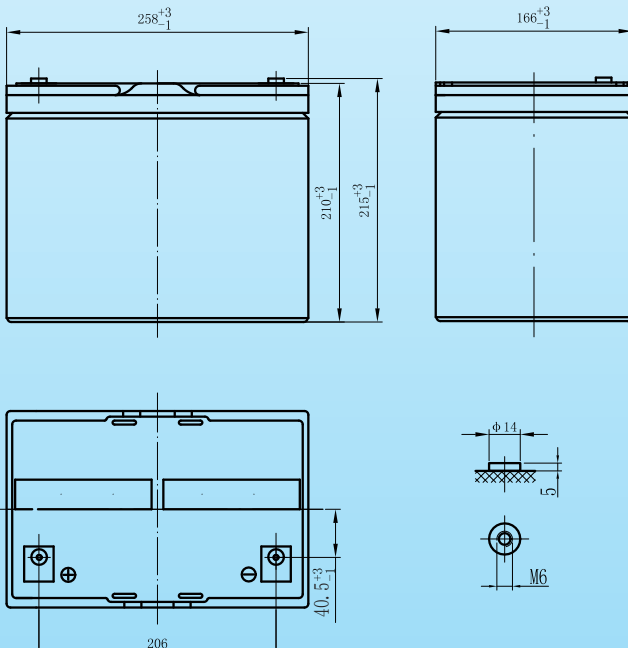
### Battery Specification

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	320W/cell
20 hour rate (4.00A, 10.5V )	80.0Ah
10 hour rate ( 7.50A,10.8V )	75.0Ah
Internal Resistance	
Fully Charged battery 77°F( 25°C)	≤5.0 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)	670A(5s)
Charge Methods: Constant Voltage Charge 77°F	
( 25°C) Cycle use	2.40-2.45VPC
Maximum charging current	22.5 A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

### Dimensions and Weight

Length(mm / inch)	258 / 10.2
Width(mm / inch)	166 / 6.54
Height(mm / inch)	210 / 8.27
Total Height(mm / inch)	215 / 8.46
Approx. Weight(Kg / lbs)	24.5 / 54.0

\* 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	349	237	183	150	128	113	65.8	45.0	33.9	21.4	14.4	9.26	7.80	4.09
1.67V	310	219	170	141	124	108	63.4	44.1	33.5	20.7	14.1	9.18	7.73	4.05
1.70V	292	210	164	136	120	105	61.1	43.0	32.2	20.0	13.8	9.08	7.65	4.02
1.75V	259	192	154	129	115	100	59.2	42.2	31.5	19.5	13.4	9.00	7.58	4.00
1.80V	227	177	144	122	108	93.8	55.1	40.6	30.9	19.0	13.0	8.90	7.50	3.94

### 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	614	422	327	270	239	203	118	82.0	62.0	40.0	27.1	17.6	14.8	7.98
1.67V	556	397	320	259	230	197	116	79.2	60.7	39.3	26.3	17.3	14.4	7.80
1.70V	528	385	301	253	225	194	113	78.1	60.0	38.8	26.0	17.0	14.3	7.73
1.75V	479	358	288	243	214	187	110	77.5	59.4	38.0	25.4	16.5	13.9	7.60
1.80V	426	330	273	233	208	179	106	76.3	58.1	37.5	24.8	16.3	13.7	7.46

(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.

