



## VISION Rechargeable Products Sealed Lead Acid Battery

[www.vision-batt.com](http://www.vision-batt.com)

## UNA Series

### High Rate Discharge

The new VISION UNA series batteries are specially designed for applications where need high power output. By optimum design of battery grids and plate paste formula, the UNA series can deliver up to 40% more power than VISION standard CP/FM series.

Shenzhen Center Power Tech Co., Ltd has more than 20 year's experience in the manufacturing of VRLA batteries.

SZCPT is one of the largest manufacturers of SLA (or VRLA) batteries in the world, the largest one in Mainland China and the first in China to develop and commercialize the sealed lead-acid battery with brand name VISION and has been at the forefront of battery technology from day one.

SZCPT leads the world in innovative battery technology. Our global network of sales and service engineers, backed in turn by our agents and distributors, means that we are currently active in more than 100 countries.

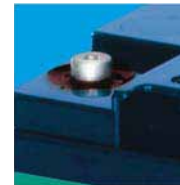
**Shenzhen Center Power Tech. Co., Ltd**

## UNA12-115 12V 115W

(Edition 2014-9)

### General Features

- Positive and negative plates in lead-calcium tin alloy
- Superior energy density
- Operates at a low internal pressure.
- Gas Recombination
- Usable in any orientation
- A recognized component of UL
- Very high power output
- Application specific designs
- A couple Range from 90W to 540W per cell for 15' @ 1.67Vpc
- Six months shelf life at 20°C
- Design life 10 years



### Dimensions and Weight

	Metric Units	English Units
Length	165mm	6.50inch
Width	125mm	4.92inch
Height	175mm	6.89inch
Total Height	175mm	6.89inch
Approx. Weight	9.60Kg	21.2lbs

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 15 min wattage @ 1.67V 115W/cell
  - 20 hour rate (1.40A, 10.8V) 28.0Ah
- Torque setting: 6.2NM
- Internal Resistance
  - Fully Charged battery 77°F(25°C): ≤ 8.0mOhms
- 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) 310A(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 2.20-2.30VPC
  - Temperature compensation -20mV/°C



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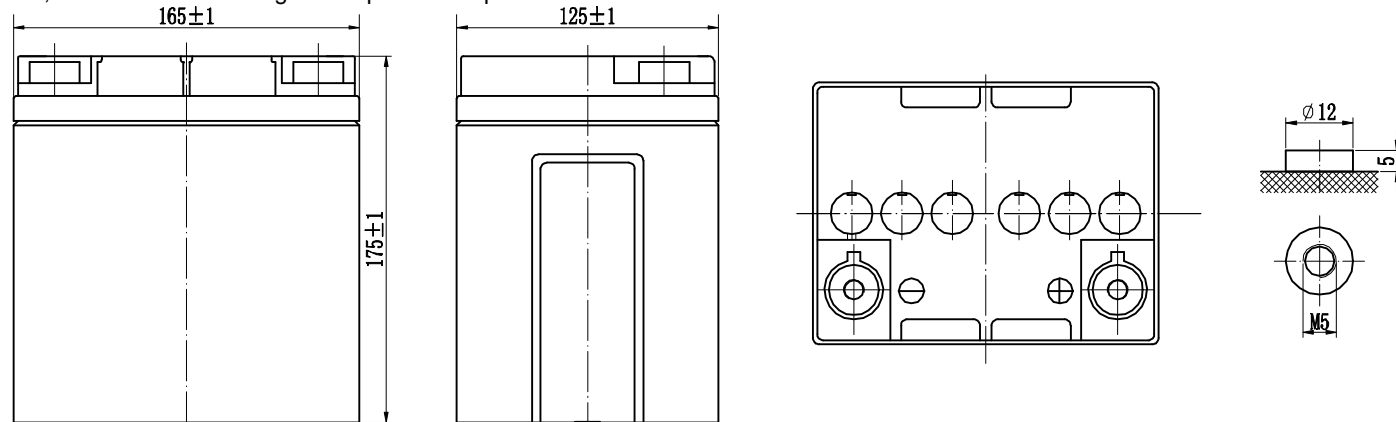
**Discharge Data**

Constant Current Discharge Data ( Amperes at 25°C)												
End voltage volts/cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	125	87.5	67.3	54.5	46.8	41.7	36.5	32.6	29.6	27.2	25.2	23.5
1.67	117	82.7	63.8	51.7	44.4	39.6	34.7	31.0	28.1	25.9	24.0	22.4
1.70	110	78.0	60.3	48.9	42.0	37.4	32.8	29.4	26.7	24.6	22.8	21.4
1.75	103	73.2	56.8	46.1	39.6	35.3	31.0	27.8	25.3	23.3	21.6	20.3
1.80	98.2	70.5	54.8	44.6	38.5	34.4	30.2	27.1	24.7	22.7	21.1	19.8

Constant Power Discharge Data ( Watts per cell at 25°C)												
End voltage volts/cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	229	155	118	95.3	81.7	72.6	64.6	58.6	53.9	49.7	46.3	43.5
1.67	219	149	115	92.1	79.0	70.3	62.6	56.8	52.3	48.3	45.0	42.3
1.70	210	144	110	89.0	76.3	67.9	60.5	55.0	50.7	46.8	43.7	41.1
1.75	200	138	106	85.8	73.6	65.6	58.5	53.2	49.0	45.4	42.4	39.9
1.80	190	132	102	82.6	71.0	63.2	56.4	51.4	47.4	43.9	41.1	38.7

(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.

**Performance Drawings**



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