



## 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 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.

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**

## UNA12-500s 12V 500W

(Edition 2014-9)

### General Features

- Computer designed low calcium tin alloy plates extend battery life with minimum grid growth and reduced gassing.
- Absorbent Gas Mat (AGM) technology for efficient gas recombination of up to 99% and maintenance free operation.
- Flame retardant (UL 94-V0) case and covers.
- Can be operated in any orientation.
- Not restricted for air transportation, complies with IATA/ICAO Special Provision A67
- Not restricted for ground transportation, classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- UL recognized component.
- Very high power output with 10 years design life @25C.
- Low self-discharge rate.



### Dimensions and Weight

	Metric Units	English Units
Length	340mm	13.4inch
Width	173mm	6.81inch
Height	276mm	10.9inch
Total Height	279mm	11.0inch
Approx. Weight	39.5Kg	87.1lbs

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 15 min wattage @1.67V 500W/cell
  - 10 hour rate (13.4A, 10.8V) 134Ah
  - 20 hour rate (7.00 A, 10.8V) 140Ah
- Torque setting:8.5NM
- Internal Resistance
  - Fully Charged battery 77°F(25°C) ≤ 4.0mOhms
- 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) 950A(5s)
- Charge Methods: Constant Voltage Charge 77°F(25°C)
  - Cycle use 14.4V-14.7V
  - Maximum charging current 40.2A
  - Temperature compensation -30mV/°C
- Standby use 13.4V-13.8V
  - Temperature compensation -20mV/°C



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**UNA12-500s 12V 500W**

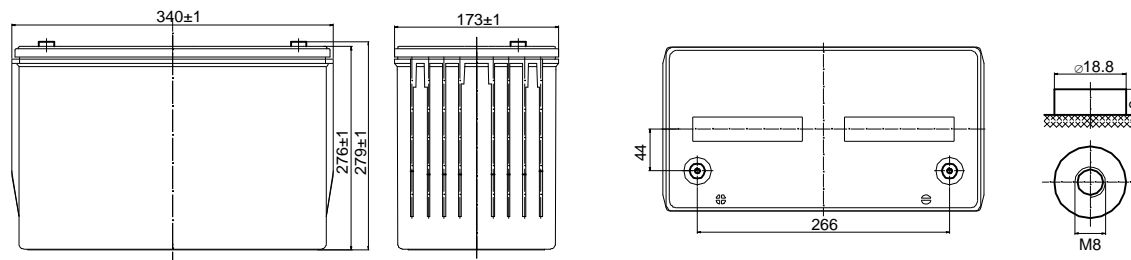
## Discharge Data

Constant Current Discharge Data (Ampere at 25 °C)											
End Voltage Volts <sub>Cell</sub>	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	329	270	227	199	180	158	141	129	117	108	100
1.67	312	256	215	189	171	150	134	122	111	103	95.7
1.70	294	240	204	178	162	142	127	115	106	97.6	91.3
1.75	276	227	192	168	153	134	120	109	100	92.9	86.5
1.80	265	218	186	163	148	130	117	107	98.0	90.5	84.5

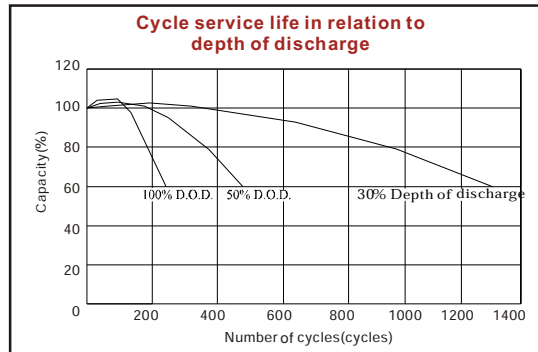
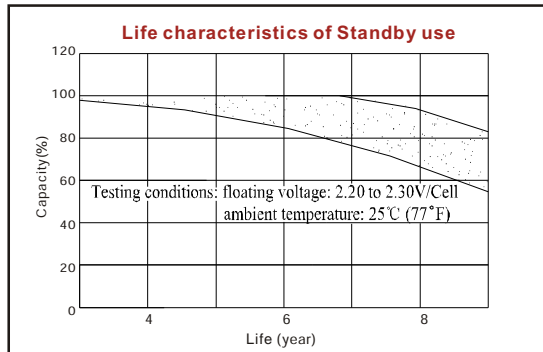
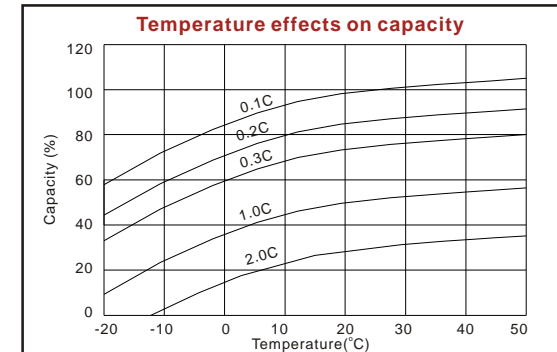
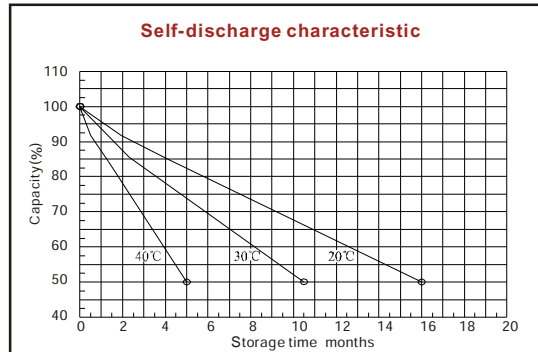
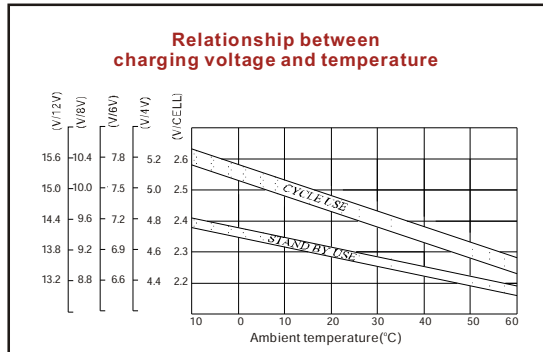
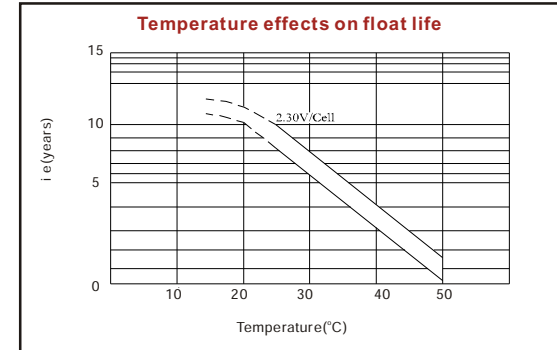
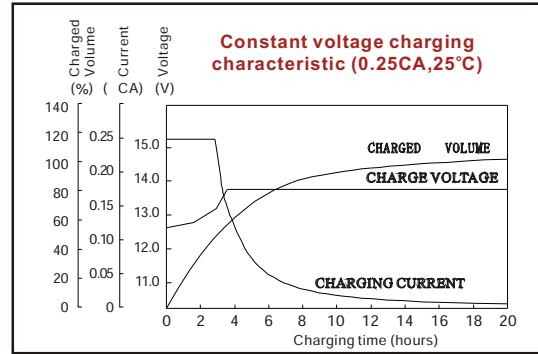
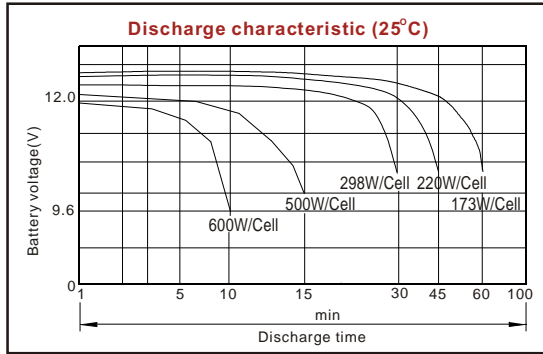
Constant Power Discharge Data (Watts at 25°C)											
End Voltage Volts <sub>Cell</sub>	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	600	503	404	353	319	282	255	234	212	195	180
1.67	578	500	390	341	308	274	247	227	207	190	177
1.70	554	455	377	330	298	265	240	220	201	186	173
1.75	526	438	363	318	288	256	232	213	196	181	169
1.80	504	421	350	306	277	247	224	206	189	176	165

(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



# UNA12-500s 12V 500W



IEEE/UL Battery  
Sizing by  
**MooreU**  
610-952-6067  
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