



VISION Rechargeable Products Sealed Lead Acid Battery

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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

UNA12-540 12V 540W

(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	341mm	13.4inch
Width	173mm	6.81inch
Height	283mm	11.1inch
Total Height	287mm	11.3inch
Approx. Weight	41.0Kg	90.4lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
 - 15 min wattage @1.67V 540W/cell
 - 10 hour rate (14.0A, 10.8V) 140Ah
 - 20 hour rate (7.50A, 10.5V) 150Ah
- 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 42A
 - Temperature compensation -30mV/°C
- Standby use 13.4V-13.8V
 - Temperature compensation -20mV/°C



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Discharge Data

Constant Current Discharge Data (Ampere at 25 °C)

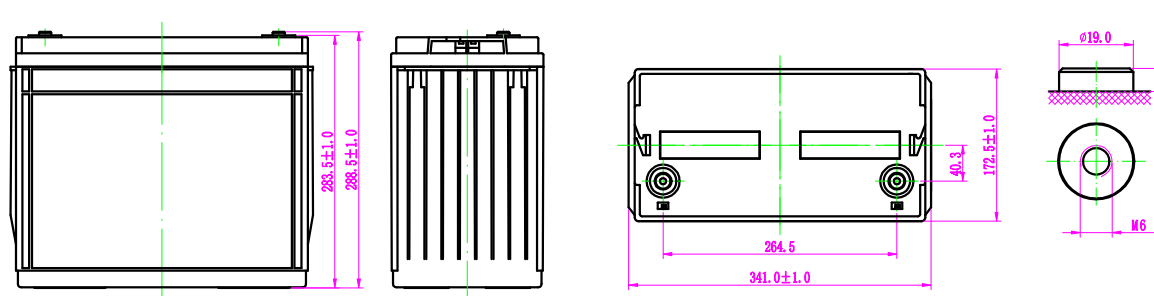
End Voltage Volts/Cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	355	292	245	215	193	169	151	137	124	114	106
1.67	337	276	232	204	183	161	143	129	118	109	101
1.70	318	259	220	192	173	152	136	122	112	103	96.8
1.75	298	245	207	181	164	143	128	116	106	98.5	91.7
1.80	286	235	201	176	158	139	125	113	104	95.9	89.6

Constant Power Discharge Data (Watts at 25 °C)

End Voltage Volts/Cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	648	543	436	381	341	302	273	248	225	207	191
1.67	624	540	421	368	330	293	264	241	219	201	188
1.70	598	491	407	356	319	284	257	233	213	197	183
1.75	568	473	392	343	308	274	248	226	208	192	179
1.80	544	455	378	330	296	264	240	218	200	187	175

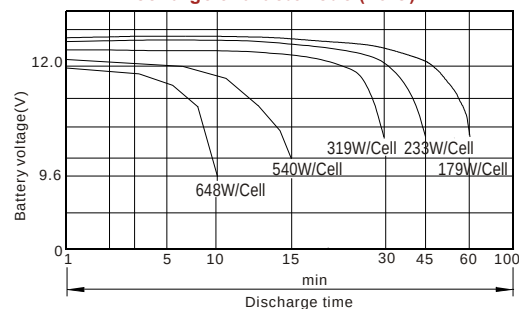
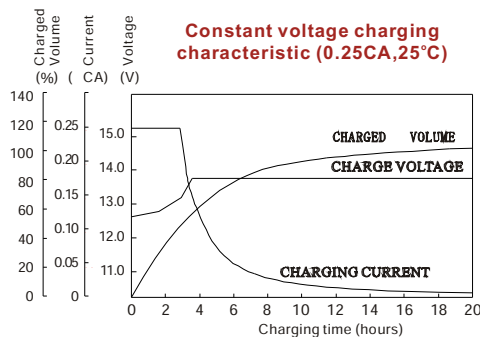
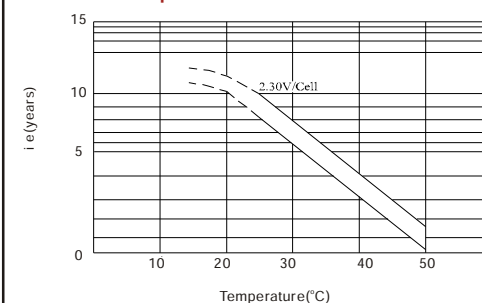
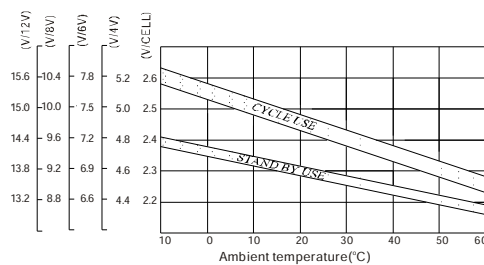
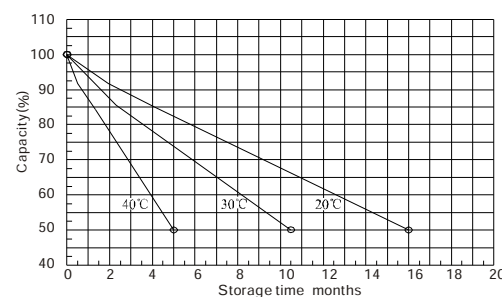
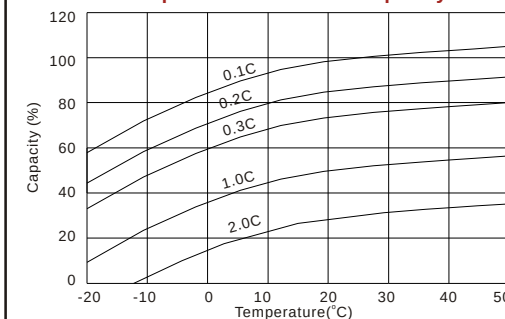
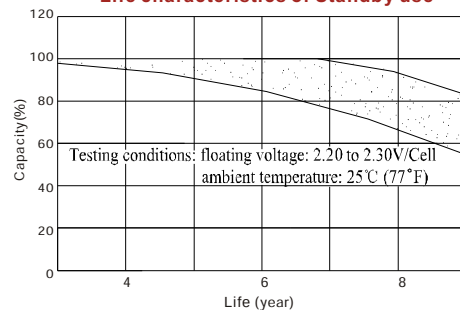
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.
All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.

Performance drawings



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UNA12-540 12V 540W**Discharge characteristic (25°C)****Constant voltage charging characteristic (0.25CA, 25°C)****Temperature effects on float life****Relationship between charging voltage and temperature****Self-discharge characteristic****Temperature effects on capacity****Life characteristics of Standby use****Cycle service life in relation to depth of discharge**