



VISION Rechargeable Products
Sealed Lead Acid Battery

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

UNA12-420 12V 420W

(Edition 2014-9)

General Features

- Positive and negative plates in lead-calcium tinalloy
- 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	339mm	13.3inch
Width	173mm	6.81inch
Height	215mm	8.46inch
Total Height	220mm	8.66inch
Approx. Weight	31.5Kg	69.4lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
 - 15 min wattage @ 1.67V 420W/cell
 - 10 hour rate (10.0A, 10.8V) 100Ah
- Torque setting: 8.5NM
- Internal Resistance
 - Fully Charged battery 77°F(25°C) ≤ 3.5 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) 900A(5s)
- Charge Methods: Constant Voltage Charge 77°F(25°C)
 - Cycle use 2.40-2.45VPC
 - Maximum charging current 30A
 - Temperature compensation -30mV/°C
- Standby use 2.20-2.30VPC
 - Temperature compensation -20mV/°C



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Discharge Data

Constant Current Discharge Data (Ampere at 25 °C)

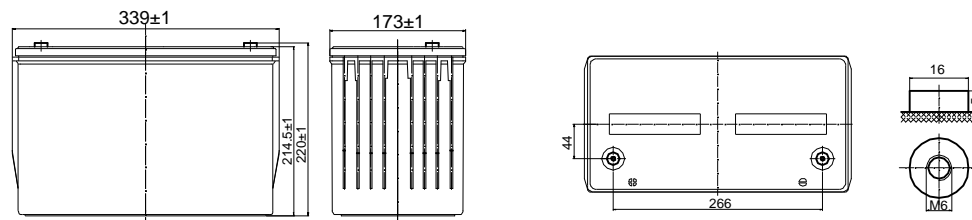
End Voltage Volts/Cell	3min	5min	10min	15min	20min	30min	45min	60min
1.60	600	460	317	240	190	160	97.0	72.9
1.67	573	434	295	225	178	152	95.7	70.0
1.70	551	411	280	210	167	140	92.0	68.0
1.75	525	390	267	200	162	135	89.0	66.0
1.80	494	365	250	191	156	127	85.1	62.0

Constant Power Discharge Data (Watts at 25 °C)

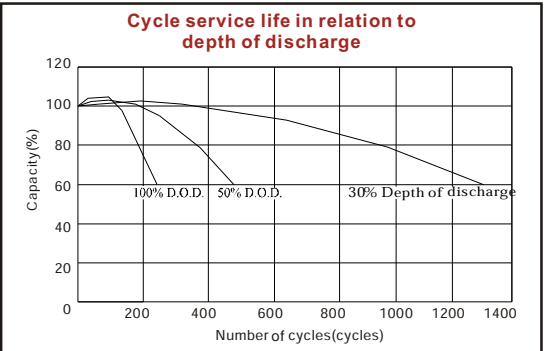
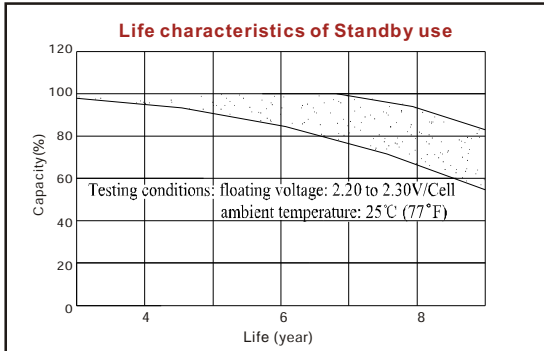
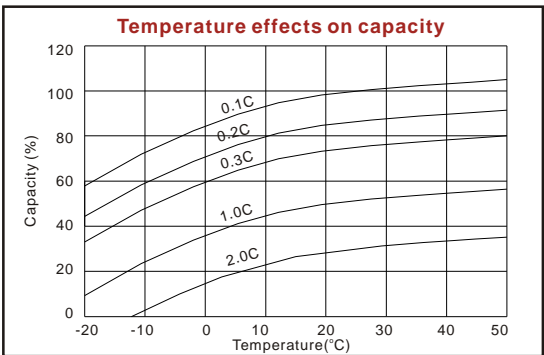
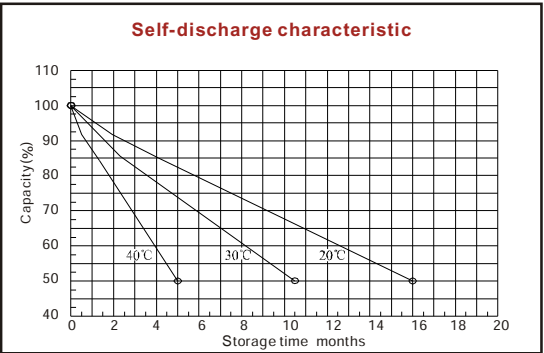
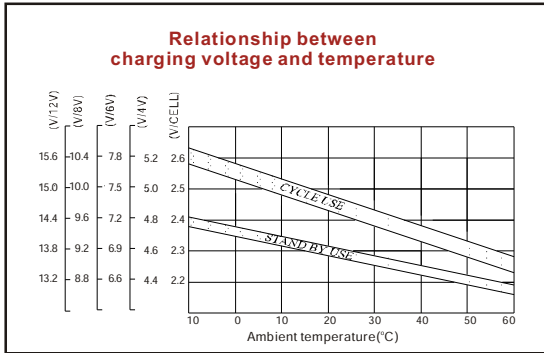
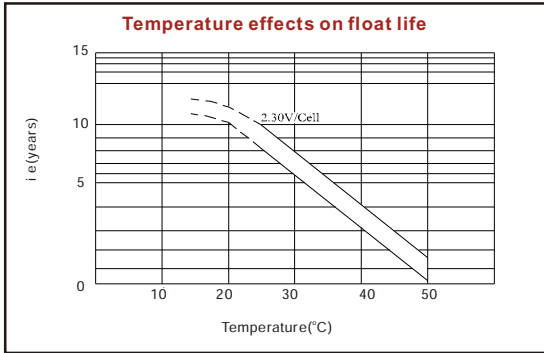
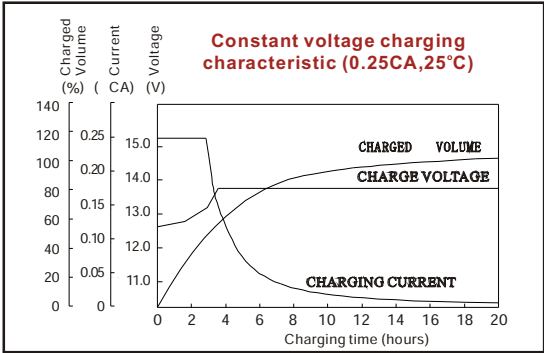
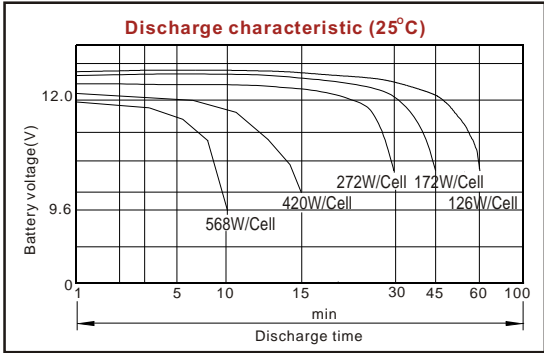
End Voltage Volts/Cell	3min	5min	10min	15min	20min	30min	45min	60min
1.60	980	800	568	437	348	292	182	137
1.67	935	751	538	420	335	285	178	134
1.70	892	711	508	395	323	272	172	130
1.75	850	667	477	372	303	260	168	126
1.80	787	627	454	349	290	251	161	119

(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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IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com