



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

UNA12-370 12V 390W

(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	306mm	12.05inch
Width	170mm	6.69inch
Height	220mm	8.66inch
Total Height	225mm	8.86inch
Approx. Weight	28.5Kg	62.8lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
 - 15 min wattage @ 1.67V 390W/cell
 - 10 hour rate (9.0A, 10.8V) 90Ah
- 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) 810A(5s)
- Charge Methods: Constant Voltage Charge 77°F(25°C)
 - Cycle use 2.40-2.45VPC
 - Maximum charging current 27A
 - 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)

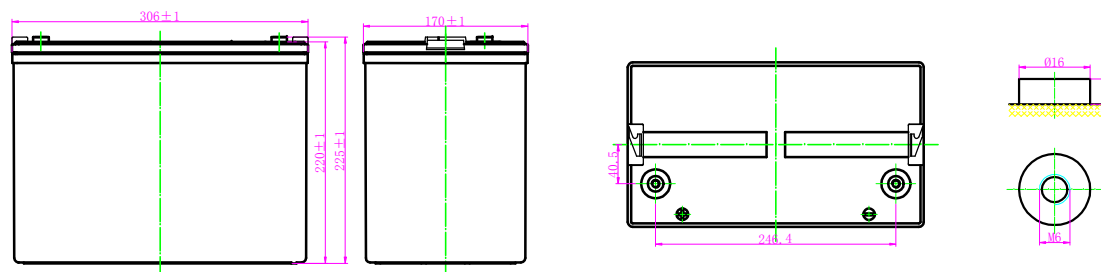
End Voltage Volts/Cell	3min	5min	10min	15min	20min	30min	45min	60min
1.60	422	347	275	223	176	136	90.0	67.5
1.67	390	324	258	213	167	128	88.0	64.7
1.70	377	312	247	205	159	123	81.0	62.6
1.75	365	300	236	197	153	117	76.5	59.5
1.80	343	286	227	187	146	111	74.2	57.6

Constant Power Discharge Data (Watts at 25 °C)

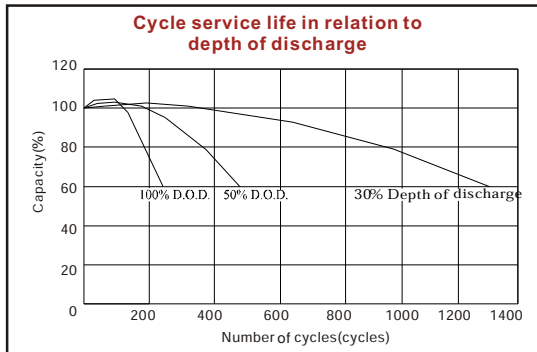
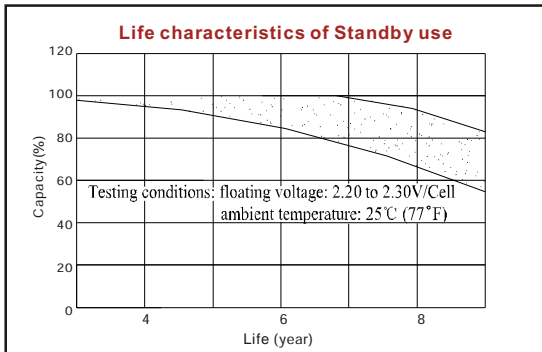
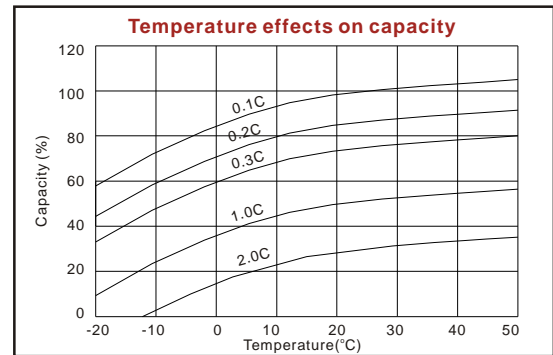
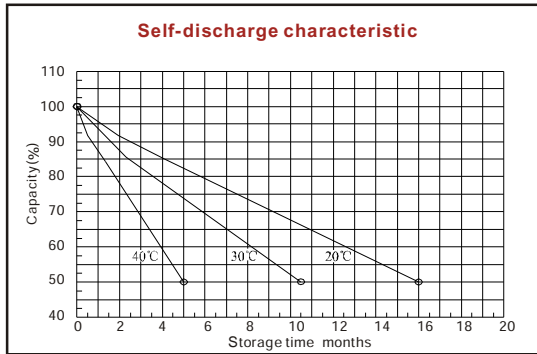
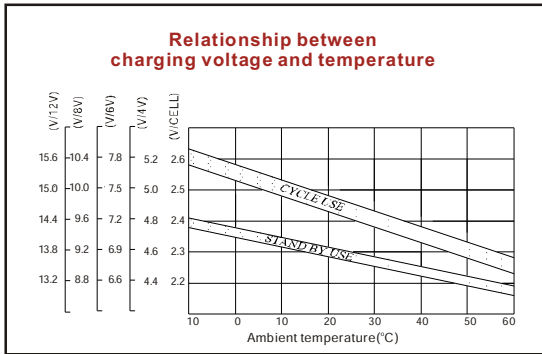
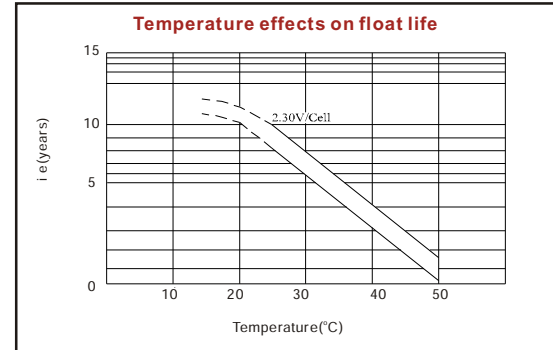
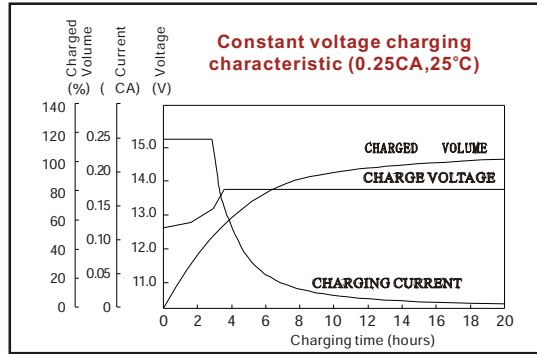
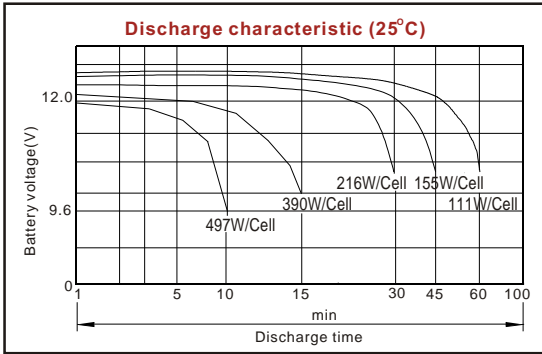
End Voltage Volts/Cell	3min	5min	10min	15min	20min	30min	45min	60min
1.60	818	654	497	395	303	235	164	124
1.67	773	615	477	390	289	225	160	121
1.70	738	585	463	365	280	216	155	115
1.75	691	561	445	348	267	209	148	111
1.80	655	538	428	333	257	200	140	103

(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
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www.mooreu.com