



**VISION Rechargeable Products  
Sealed Lead Acid Battery**

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

## Pure Lead Battery Series

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Shenzhen center power co.ltd has more than 15years' experience in the manufacturing of VRLA batteries.It is one of the biggest manufactures of SLA batteries in the world,the biggest one in mainland China and the first in China to develop and commercialize the SLA battery with brand name Vision and has been at the forefront of battery technology from day one.

Our global network of sales and service engineers,backed in turn of your agents and distributors,means that we are currently active in more than 100 countries.

Shenzhen Center Power Tech. Co., Ltd

## 2V 250Ah General Features

Feature	Benefit
1.High energy density	1.More power in less space and weight
2.Low internal resistance	2.Superior high rate discharge capability
3.Flexible mounting orientation	3.Excellent low temperature performance
4.Very high purity lead-tin alloy grid	4.Battery may be installed in any position except inverted
5.Long service life	5.Lower corrosion rates and longer life
6.Excellent high-rate recharge capability	6.Allows >90% recharge in under an hour
7.Low self-discharge	7.Longest shelf life among VRLA batteries
8.Wide operating temperature	8.-40°C (-40°F) to +80°C (176°F)



## Dimension and weight

	SI units	English units
Length	173 mm	6.81 inch
Width	111 mm	4.37 inch
Heighth	329 mm	12.96 inch
Total height	341 mm	13.42 inch
Approx.weight	14.5 Kg	32 lbs



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PCL 250 2V 250Ah

## Discharge Data

Discharge Constant current( Amperes at 25°C)								
End Voltage <sub>(per cell/V)</sub>	10min	15min	30min	45min	1h	3h	5h	10h
1.80	358.1	331.0	230.5	176.2	145.3	67.0	45.6	25.0
1.75	390.9	356.8	245.0	184.5	154.0	68.3	45.8	25.3
1.70	426.6	395.0	277.5	201.4	161.0	69.2	46.0	25.6
1.65	462.8	422.0	298.0	217.8	168.0	70.0	46.1	25.8
1.60	505.8	451.0	315.0	227.5	175.0	70.8	46.2	26.1

Discharge Constant power( Watts at 25°C)								
End Voltage <sub>(per cell/V)</sub>	10min	15min	30min	45min	1h	3h	5h	10h
1.80	587.5	423.1	304.2	265.3	275.0	197.3	175.2	159.8
1.75	641.5	468.5	341.1	302.0	284.0	207.8	186.0	168.2
1.70	700.0	504.0	450.0	413.4	304.8	236.5	213.4	191.7
1.65	759.4	555.1	393.1	358.6	318.1	254.5	231.8	206.8
1.60	830.0	620.6	444.2	410.1	331.3	272.9	251.0	222.4

### performance characstics

Nominal voltage	2V
Number of cell	1
Design life	15years
Nominal capacity <sub>77°F(25°C)</sub>	
10hour rate (25.0A,1.80V)	250Ah
Internal resistance	
Fully charged battery <sub>77°F(25°C)</sub>	0.45m

Self-discharge	
3% of capacity declined per month at 20°C	
5hour rate (46.0A,1.75V)	230Ah
1hour rate (175.0A,1.60V)	175Ah
Operating temperature range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C

Max.discharge current <sub>77°F(25°C)</sub>	1250A(5s)
Charge methods constant voltage charge <sub>77°F(25°C)</sub>	
Cycle use	2.35~2.45V
Maximum charging current	50A
Temperature compensation	-5.0mV/25°C
Stand use	2.25~2.3V
Temperature compensation	-3.3mV/25°C

