

# REDDOT

## DD12120 12 Volt 12 AH

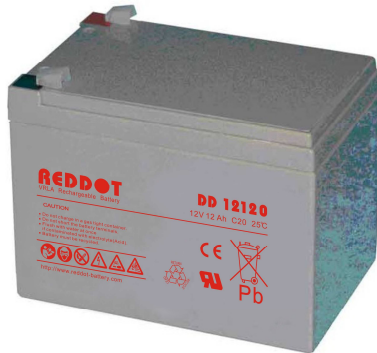
### VRLA Rechargeable Battery



ISO9001  
ISO14000



CGZ3100705-02429-E

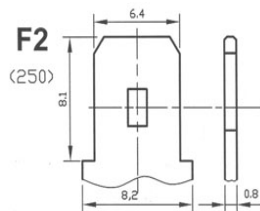
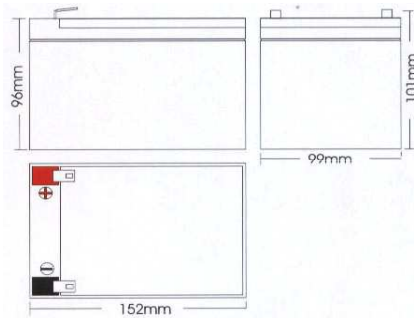


### Features

- Special grid alloy and plate design
- Long service life
- High charging performance
- High gas recombination technology
- Low-self discharge characteristic
- Wide operating temperature range

### Application

- Measuring instrument
- Medical equipments
- Telephone sets
- Lighting equipment
- Security & alarm systems
- UPS power supply
- Power station and telecom station



F2 Terminal

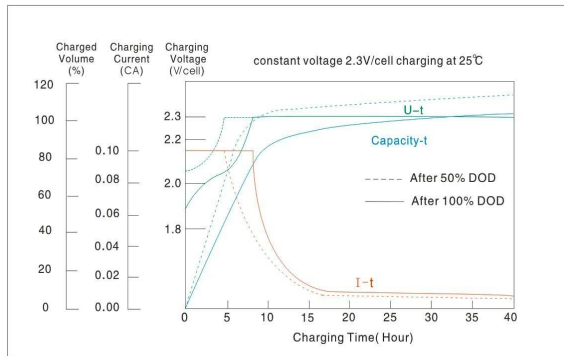
### Specification

Cell per unit	6
Normal Voltage	12V
Normal Capacity	12 AH
Weight	Approx.3.45Kg (7.607lbs)
Internal Resistance	Approx. 15.1 mΩ
Normal Operating Temperature Range	25°C
Recommended Maximum Charge Current	3 A
Current Limit	
Float Charging Voltage	13.6 to 13.8VDC/unit Average at 25°C (77°F)
Equalization and Cycle Service Voltage	14.1 to 14.4VDC/unit Average at 25°C (77°F)
Self Discharge	Reddot Batteries can be stored for more than 6 months at (25°C/77°F).Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	F2

## Characteristics

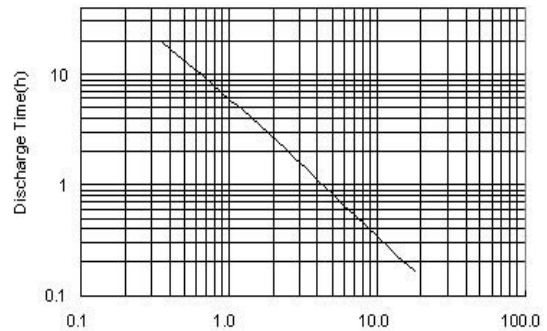
Rated Capacity	20 hour rate(0.6A)	12.3AH
	10 hour rate(1.2A)	12AH
	5 hour rate(1.92A)	9.6AH
	27 min rate(12A)	5.4AH
	7 min rate(36A)	4.2AH

### Charging Characteristics(25°C/77°F)



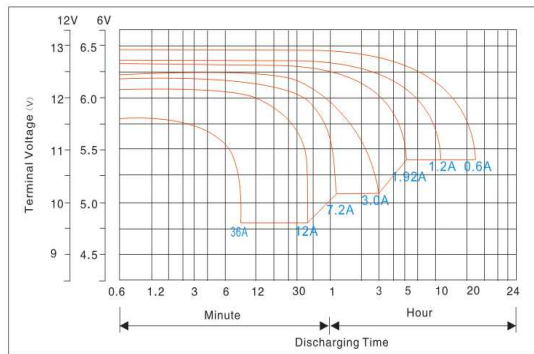
Charging Time(Hour)

### The Relation between Discharging Current and Discharging time(25°C/77°F)



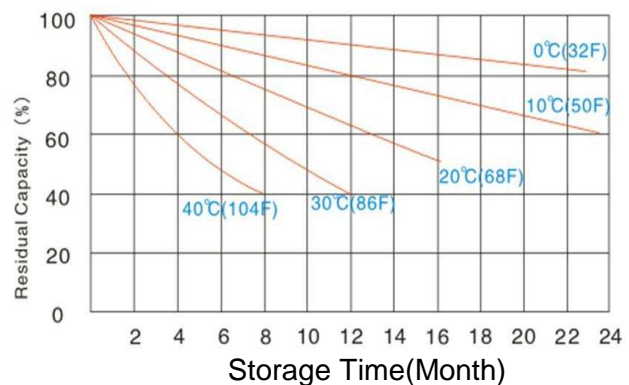
Discharge Current(A)

### Discharging Characteristic(25°C/77°F)



Discharging Time

### Self-Discharging Characteristic(25°C/77°F)



Storage Time(Month)

### Constant Current Discharge Characteristics (Amperes at 25°C)

Cut-off Voltage/cell	5min	10min	20min	45min	1Hr	2Hr	4Hr	8Hr	10Hr	20Hr
1.70	45.9	29.8	16.71	8.68	7.44	4.41	2.51	1.42	1.18	0.634
1.75	45.4	29.5	16.55	8.57	7.41	4.24	2.45	1.41	1.17	0.627
1.80	45.0	29.3	16.34	8.46	7.36	4.07	2.39	1.39	1.16	0.620

### Constant Power Discharge Characteristics (Amperes at 25°C)

Cut-off Voltage/cell	5min	10min	20min	45min	1Hr	2Hr	4Hr	8Hr	10Hr	20Hr
1.70	551	358	201	104	90	52.88	30.13	17.07	14.07	7.58
1.75	546	355	198	103	89	50.91	29.47	16.92	13.93	7.52
1.80	519	351	196	101	88	48.87	28.74	16.71	13.78	7.36

All mentioned values are average values