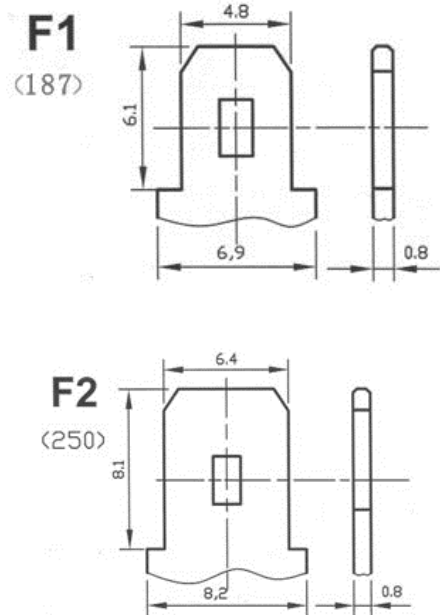


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General Features

- Designed life 15 years in stand-by application
- Superior Deep Cycle Design
- High Power Density
- Thick Plates and High-density Active Material
- Longer Life in Deep Cycle Applications
- Excellent Recovery from Deep Discharge
- Wide operating temperature range from -10°C~ 50°C

Application

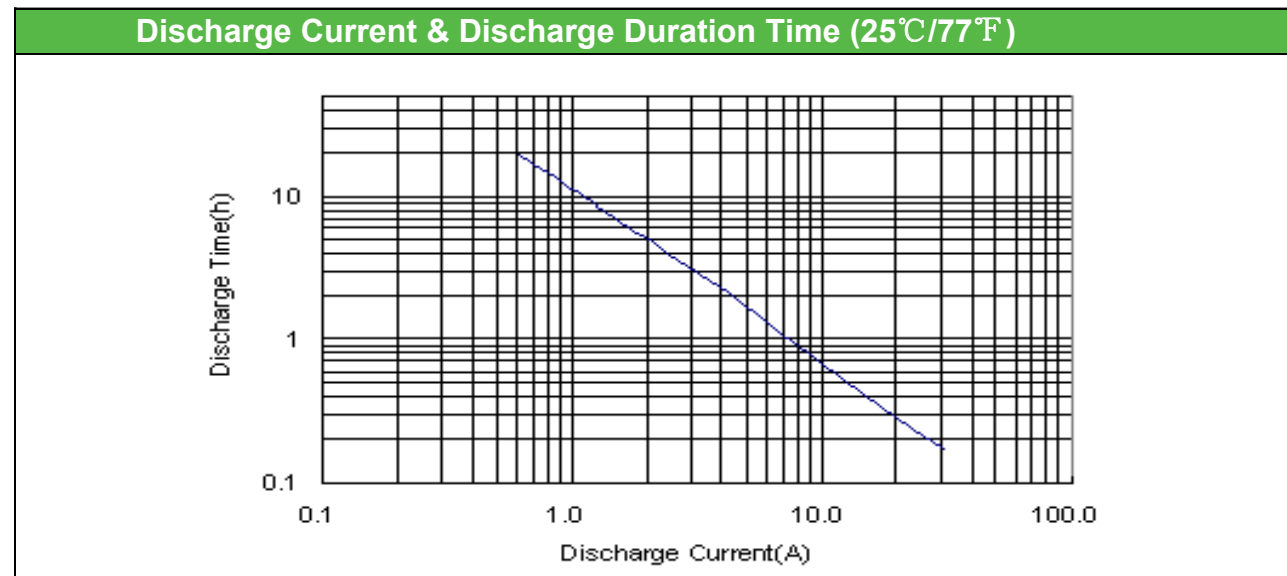
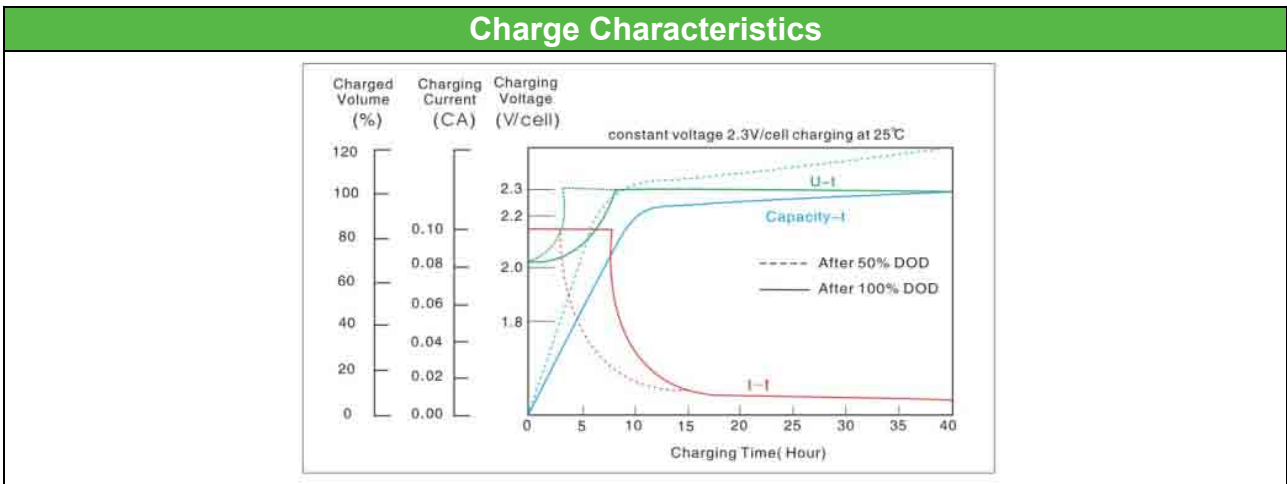
- Measuring equipment and instrument
- Telephone sets
- Lighting equipment
- Security systems
- UPS power supply

PHYSICAL SPECIFICATIONS		
Nominal Voltage		
	12V	
Nominal Capacity (20HR)		
	12AH	
Dimensions	Length	151±2mm
	Width	98±1mm
	Container height	95±1mm
	Total Height (with terminal)	99±1mm
Weight±3%		
	Approx 3.75Kg(8.26lbs)	
Internal Resistance(In full charge status)		
	≈22.2mΩ	
Standard Terminals		
	F1/F2(standard)	



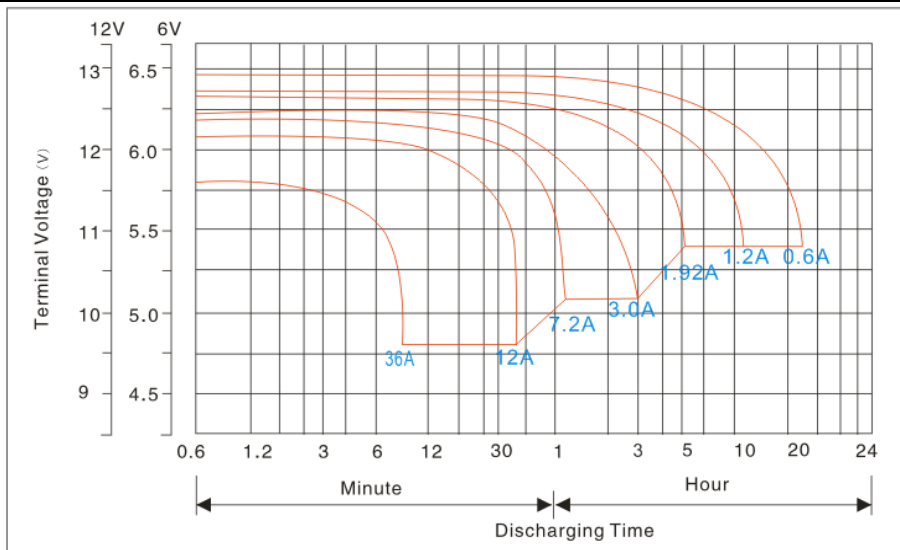
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Constant – Voltage Charge	
Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 2.4 A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77F). 3. Hold at 14.1V to 14.4V until current drop to under 0.072A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 2.4A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	



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Discharge Characteristic (25°C/77°F)



ELECTRICAL SPECIFICATIONS

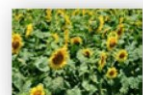
Rated Capacity	20 hour rate(0.60A)	12.0AH
	10 hour rate(1.2A)	11.3AH
	5 hour rate(1.92A)	9.6AH
	27 minute rate(12A)	5.4AH
	7 minute rate (36A)	4.2AH
Capacity affected by Temperature (20Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

Constant Current Discharge Data Sheet (Amperes at 25°C)

End Voltage/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	44.4	28.9	16.1	8.38	7.20	4.26	2.43	1.38	1.16	0.612
1.75	44.0	28.6	16.0	8.30	7.15	4.10	2.37	1.37	1.15	0.606
1.80	43.5	28.3	15.8	8.22	7.10	3.94	2.31	1.35	1.14	0.600

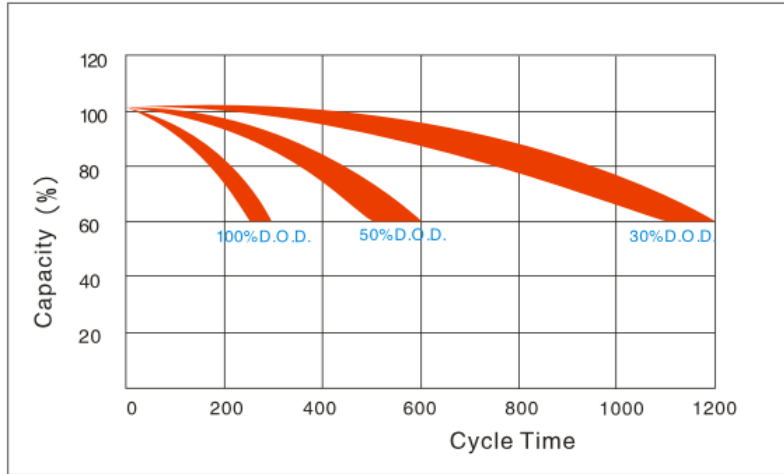
Constant Power Discharge Data Sheet (Watt at 25°C)

End Voltage/cell	Minute (M)				Hour (H)					
	5	10	20	45	1	2	4	8	10	20
1.70	533	336	193	101	86.4	51.1	29.2	16.6	13.8	7.28
1.75	528	338	192	99.8	85.8	49.2	28.5	16.4	13.7	7.21
1.80	522	340	190	98.6	85.2	47.3	27.7	16.2	13.6	7.14

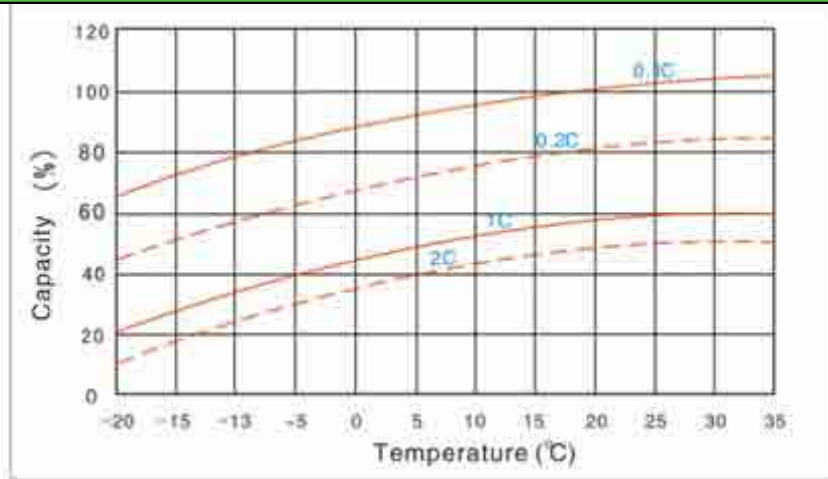


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The Relationship Between Lifetime and Depth Of Discharge(25°C/77°F)



Capacity Curve at Different Temperature



Storage Characteristics

