

# SUNLYTE®

Photovoltaic and Alternative Energy VRLA Batteries

Section 62.26  
2011-09

## 12-5000X

6 Cell, 12 Volt Valve-Regulated Lead-Acid Battery

100 Ah at 100 Hour Rate

### INNOVATIVE FEATURES

#### Valve-Regulated Lead-Acid Design

- Never requires watering
- Spill proof and leak proof
- Explosion resistant
- Horizontal or vertical operation
- No gases escape under normal charging
- Operates at low internal pressure
- Increased operating safety

#### Immobilized Electrolyte

- Extended partial state of charge operation (at reduced capacities)
- Freezing tolerant
- Minimized need for equalization

#### Positive Grid Alloy

- Deep cycle capability
- Long life
- Low self-discharge rate



### SPECIFICATIONS

**Container and Cover** - Reinforced polypropylene

**Separators** - Spun glass, microporous matrix

**Safety Vent** - 5 PSI nominal, self resealing

**Self-Discharge** - 0.5-1.0% per week

**Terminals** - Heavy duty copper alloy

**Charge Voltage** - 2.28-2.38 VPC @ 25°C (77°F)  
(30 amp max. current)

**Positive Plate** — Patented Lead Calcium  
Tin Silver Alloy

**Negative Plate** — Lead Calcium

**Estimated Cycle Life** —  
{8 hour rate to 1.75 VPC @ 25°C (77°F)}  
300 cycles @ 80% DOD  
600 cycles @ 50% DOD  
1,000 cycles @ 20% DOD

### PHYSICAL CHARACTERISTICS

Type	Nominal Dimensions						Weight	
	Length		Width		Height		Net Each	
	In	mm	In	mm	In	mm	Lbs	Kgs
12-5000X	12.05	307	6.85	175	8.80	224	70.4	31.9

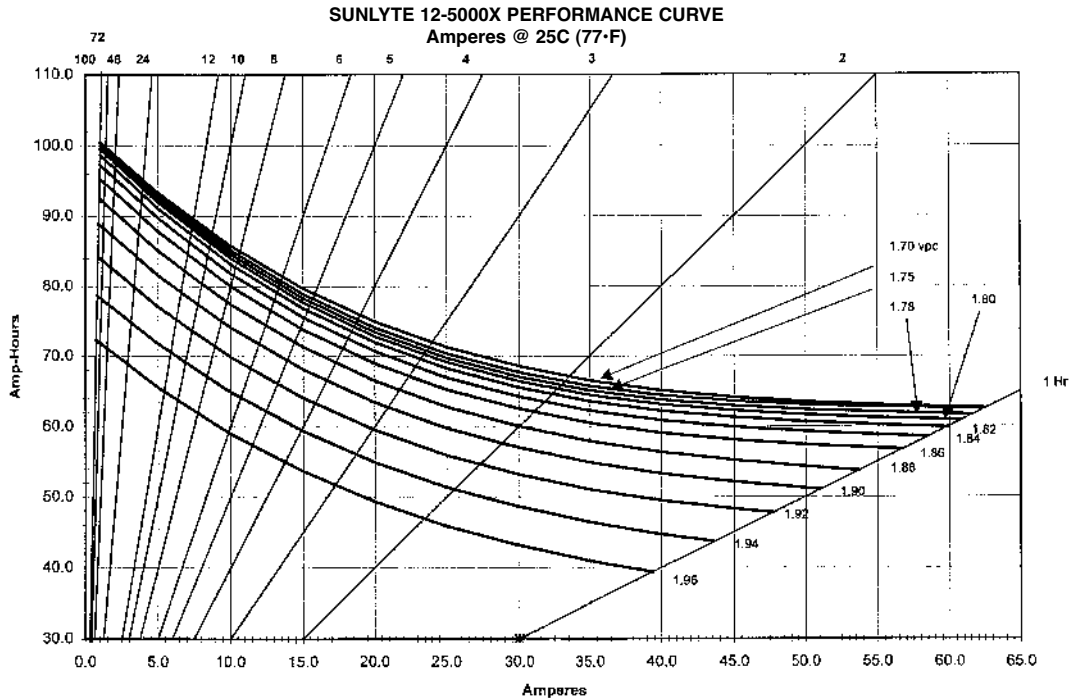
**SPECIFICATIONS**

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SUNlyte® 12-5000X Performance Specifications  
Amperes @ 25°C (77°F)

End Voltage	Hours												
	100	72	48	24	12	10	8	6	5	4	3	2	1
1.70 Final Volts per Cell	1.0	1.4	2.1	4.0	7.5	8.7	10.6	13.6	15.8	19.0	24.0	33.6	62.6
1.75 Final Volts per Cell	1.0	1.4	2.0	4.0	7.4	8.7	10.5	13.5	15.7	18.8	23.8	33.2	62.5
1.78 Final Volts per Cell	1.0	1.4	2.0	4.0	7.4	8.7	10.5	13.4	15.6	18.7	23.6	33.0	61.6
1.80 Final Volts per Cell	1.0	1.4	2.0	4.0	7.3	8.6	10.4	13.3	15.5	18.6	23.4	32.7	60.8
1.82 Final Volts per Cell	1.0	1.4	2.0	3.9	7.3	8.5	10.3	13.2	15.3	18.4	23.2	32.3	59.9
1.84 Final Volts per Cell	1.0	1.3	2.0	3.9	7.2	8.4	10.2	13.0	15.1	18.1	22.9	31.8	58.5
1.86 Final Volts per Cell	1.0	1.3	1.9	3.8	7.1	8.3	10.0	12.8	14.8	17.8	22.4	31.1	56.7
1.88 Final Volts per Cell	0.9	1.3	1.9	3.7	6.9	8.0	9.7	12.4	14.4	17.3	21.8	30.0	53.7
1.90 Final Volts per Cell	0.9	1.2	1.8	3.6	6.6	7.7	9.4	12.0	13.9	16.7	20.9	28.8	51.0
1.92 Final Volts per Cell	0.8	1.2	1.7	3.4	6.3	7.4	8.9	11.4	13.2	15.9	19.9	27.3	47.7
1.94 Final Volts per Cell	0.8	1.1	1.6	3.2	5.9	6.9	8.4	10.7	12.4	14.9	18.7	25.6	43.6
1.96 Final Volts per Cell	0.7	1.0	1.5	2.9	5.4	6.4	7.7	9.9	11.5	13.8	17.3	23.5	39.4



**GNB Industrial Power**  
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[www.gnb.com](http://www.gnb.com)

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