



12GX100F

Pure Lead High Rate Battery

12GX100F is a robust 12V valve regulated lead acid battery specifically designed for high-rate discharge applications.

Key Benefits

- Easy installation & upscaling capabilities
- Compact design for space efficiency
- High operational reliability
- Maximized corrosion resistance
- Exceptionally long service life & increased energy density

Safety Standards & Compliances

- CE & UL Certified
- ISO 9001
- ISO 45001
- IEC 60896
- ISO 14001
- OHSAS 18001

Specifications

Nominal Characteristics

Nominal Voltage	12V
Nominal Rate	364.4 WPC (77°F / 25°C)
Nominal Capacity	100 Ah (77°F / 25°C)
Dimensions	Length Width Height
Weight	67.9 lbs / 30.8 kgs
Terminal	M8 / M6 Optional
Container Material	ABS-FR (UL94 V-0)
Design Life	20 Years
Warranty	5 Year Full

Electrical Characteristics

Short Circuit Current	2000A
Internal Resistance	Approx. 4.5 mΩ (Fully Charged)
Charge Temperature	-4°F to 129°F / -20°C to 54°C
Discharge Temperature	-40°F to 149°F / -20°C to 65°C
Storage Temperature	-4°F to 122°F / -20°C to 50°C
Nominal Operating Temperature Range	77 ± 5°F / 25 ± 3°C
Max. Charge Current	0.3C
Float Charge (-3mV / cell / °C)	2.27 ± 0.02V / cell
Equalization Charge (-4mV / cell / °C)	2.35 - 2.40V / cell
Self Discharge	Can be stored up to 2 years 77°F (25°C)

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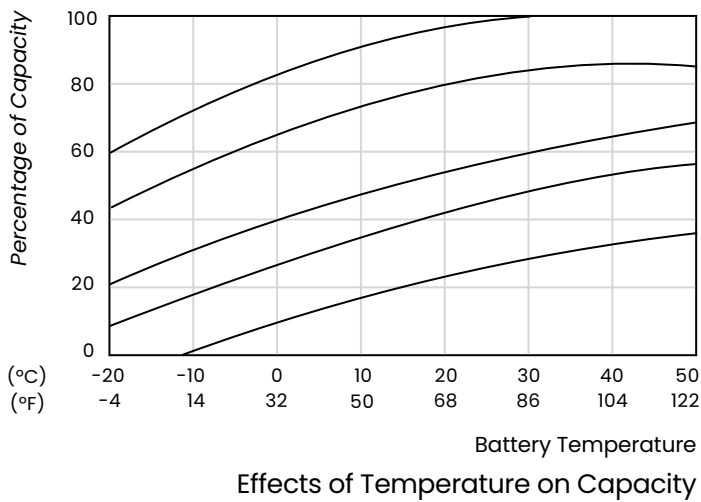
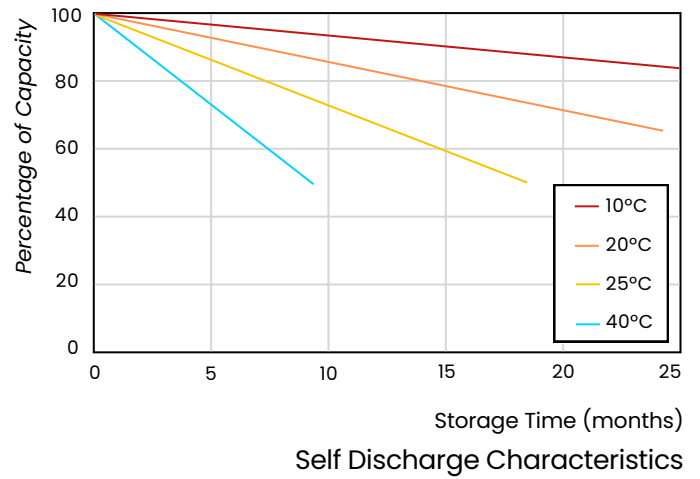
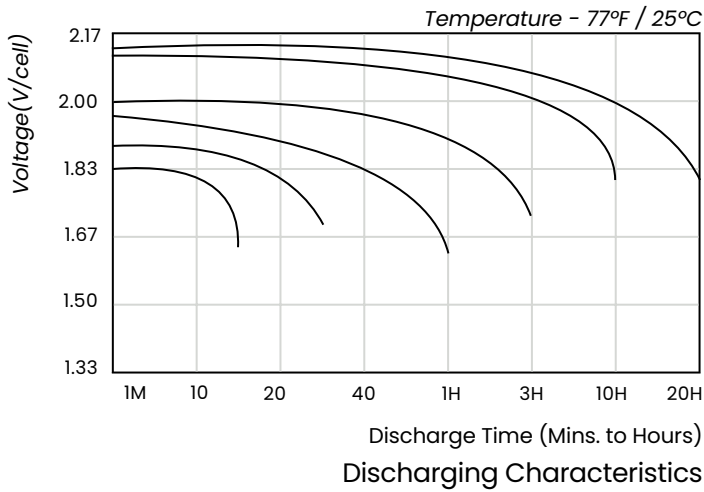
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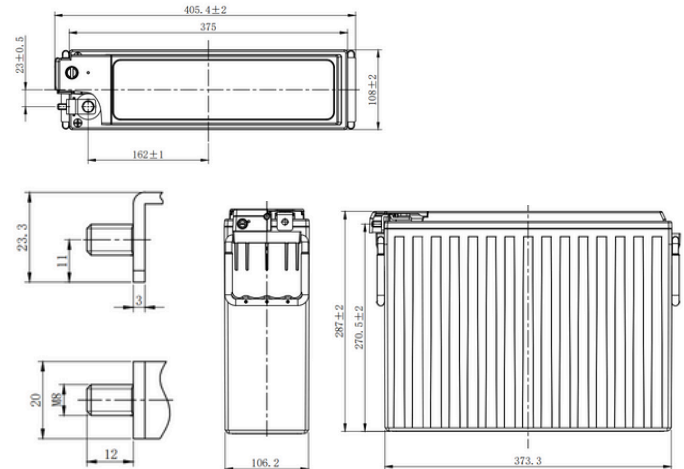
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Performance Curves



Drawing



Discharge Data

Constant Current Discharge Data in Amperes at 77°F (25°C)								
F.V / Time	10 Min	15 Min	30 Min	1 Hr	3 Hr	8 Hr	10 Hr	20 Hr
1.85V / cell	180.8	152.1	99.7	61.9	25.7	11.9	9.80	5.10
1.75V / cell	221.2	179.3	108.3	65.8	27.0	12.5	10.1	5.24
1.67V / cell	251.7	199.3	116.6	70.0	28.0	12.5	10.2	5.31
Constant Power Discharge Data in Watts Per Cell at 77°F (25°C)								
1.85V / cell	343.1	290.4	194.0	122.8	51.8	23.7	19.9	10.4
1.75V / cell	408.7	335.3	207.7	128.9	54.1	24.3	20.0	10.6
1.67V / cell	453.6	364.4	220.8	135.5	54.9	24.6	20.1	10.7

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