



12GX40F

Pure Lead High Rate Battery

12GX40F 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	149.2 WPC (77°F / 25°C)
Nominal Capacity	38 Ah (77°F / 25°C)
Dimensions	Length Width Height
Weight	27.6 lbs / 12.5 kgs
Terminal	M6 / T6
Container Material	ABS-FR (UL94 V-0)
Design Life	20 Years
Warranty	5 Year Full

Electrical Characteristics

Short Circuit Current	760A
Internal Resistance	Approx. 6 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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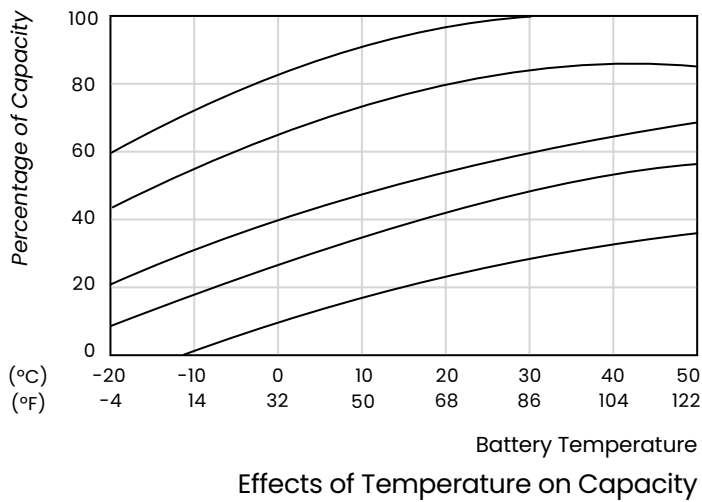
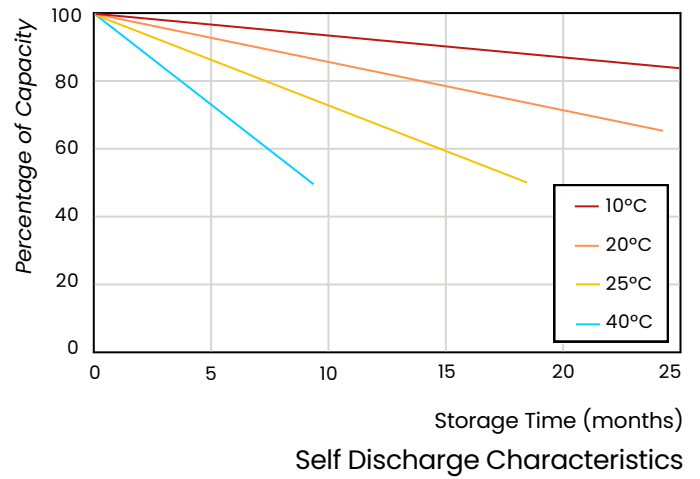
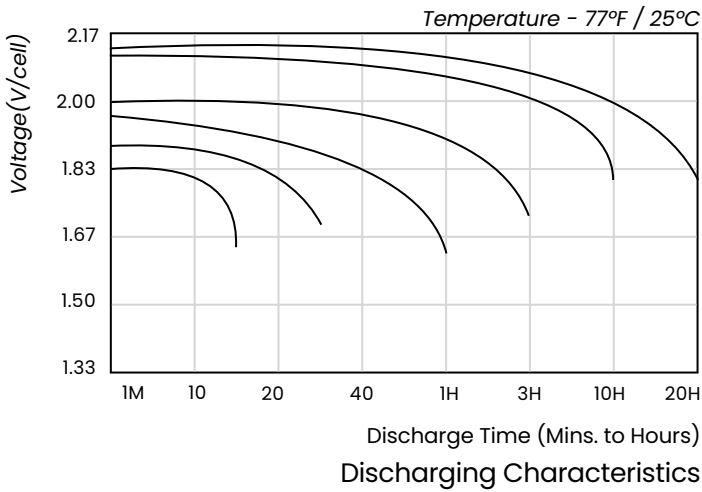


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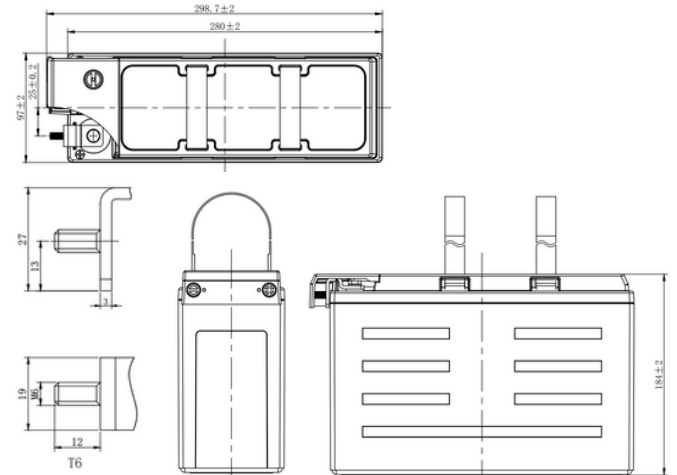


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Performance Curves



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	77.7	64.2	42.7	24.7	10.6	4.57	3.72	2.08
1.75V / cell	91.9	73.7	46.2	26.3	10.8	4.75	3.86	2.15
1.67V / cell	104.9	81.6	48.8	27.2	11.0	4.86	3.94	2.18
Constant Power Discharge Data in Watts Per Cell at 77°F (25°C)								
1.85V / cell	147.4	122.8	83.1	49.0	21.2	9.26	7.58	4.25
1.75V / cell	169.8	137.8	88.6	51.6	21.5	9.57	7.80	4.36
1.67V / cell	189.0	149.2	92.4	52.8	21.7	9.76	7.92	4.41

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