



12GX190F

Pure Lead High Rate Battery

12GX190F 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		690.5 WPC (77°F / 25°C)
Nominal Capacity		190 Ah (77°F / 25°C)
Dimensions	Length	22.0 in / 559 mm
	Width	4.92 in / 125 mm
	Height	12.6 in / 320 mm
Weight		127 lbs / 57.6 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		3800A
Internal Resistance		Approx. 3 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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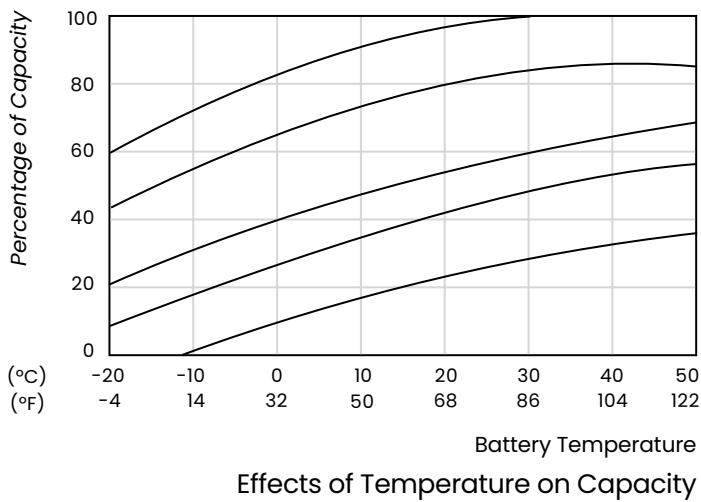
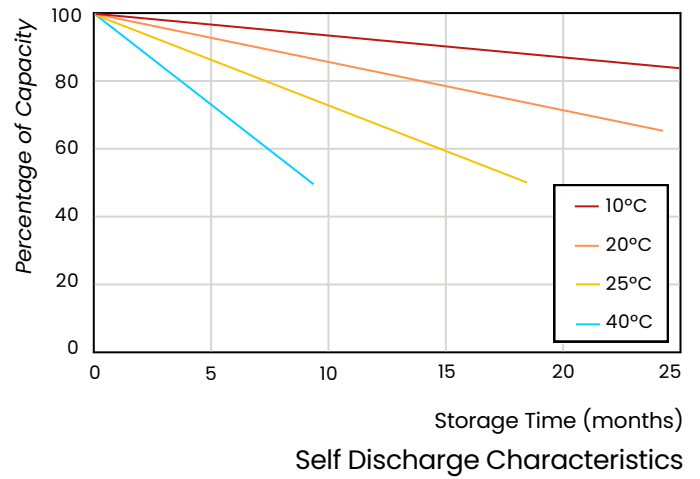
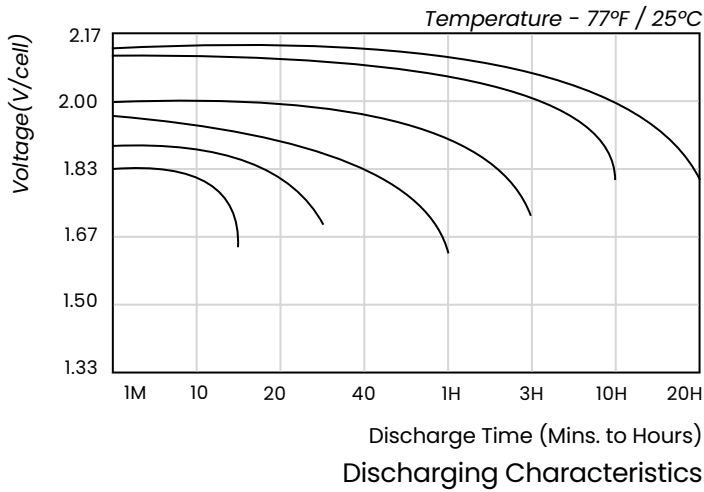
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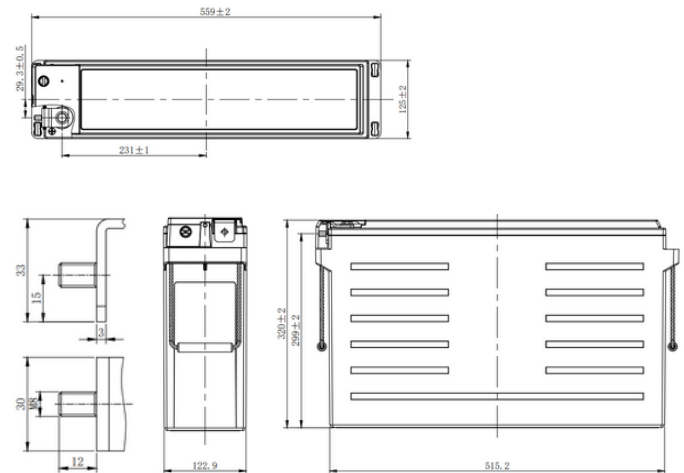
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Performance Curves



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	341.5	292.9	195.0	123.1	52.8	22.6	18.4	9.67
1.75V / cell	408.5	343.7	218.8	133.7	55.6	23.8	19.2	10.1
1.67V / cell	456.3	372.5	231.0	138.9	57.1	24.0	19.5	10.2
Constant Power Discharge Data in Watts Per Cell at 77°F (25°C)								
1.85V / cell	647.5	560.5	379.7	243.6	105.5	46.5	37.5	19.7
1.75V / cell	755.0	642.7	419.9	261.8	110.9	47.9	38.8	20.5
1.67V / cell	822.0	690.5	437.9	269.6	113.1	48.1	39.1	20.6

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