

GS BATTERY (U.S.A.) INC.



PRODUCT: PX12090 High Rate- rechargeable, valve regulated lead-acid (VRLA) battery

NOMINAL VOLTAGE: 12 Volt

NOMINAL CAPACITY:

at 20 hour rate	9.0Ah, 0.45A, FV=10.5V
at 10 hour rate	8.1Ah, 0.81A, FV=10.5V
at 5 hour rate	7.65Ah, 1.53A, FV=10.5V
at 3 hour rate	6.3Ah, 2.1A, FV=10.2V
at 1 hour rate	5.4Ah, 5.4A, FV=9.6V
at 30 minute rate	4.75Ah, 9.5A, FV=9.0V
at 15 minute rate	3.6Ah, 14.4A, FV=9.0V

NOMINAL WATTAGE:

at 60 minute rate	80 watts, FV=9.6V
at 30 minute rate	140 watts, FV=9.6V
at 15 minute rate	230 watts, FV=9.6V
at 10 minute rate	290 watts, FV=9.6V
at 7.5 minute rate	330 watts, FV=9.6V
at 5 minute rate	430 watts, FV=9.6V
at 2.5 minute rate	600 watts, FV=9.6V

WEIGHT: (approx.) 6.22 pounds (2,800 grams)

Internal Resistance of Fully Charged Battery: 13 milliohms (approx.)

ENERGY DENSITY: (0.05C) 1.83 Watt-hours / cubic inch (112.5 Watt-hours / liter)

SPECIFIC ENERGY: (0.05C) 17.3 Watt-hours / pound (38.5 Watt-hours / kg)

Maximum Discharge Current with Standard Terminals: 54A at Constant Current (67.5A at Constant Power FV=9.6V) at 25C

Maximum Short Duration Discharge Current: 135 amperes (at 25C)
(less than 5 sec.)

Vibration Test: No loss in capacity or performance
(2,000 cycles/minute, 0.10 inch excursion, 2hours)

Charge Retention: (shelf life) % of nominal capacity at 77 degrees F (25 Celsius)
1 month: 97%
3 months: 91%
6 months: 82%

Operating Temperature Range:

Charge	32 degrees F (0 C)	to	122 degrees F (50 C)
Discharge	minus 4 degrees F (-20 C)	to	122 degrees F (50 C)
Storage	minus 4 degrees F (-20 C)	to	104 degrees F (40 C)

Case Material: Synthetic resin ABS (94HB) Optional: UL94 V0 flame retardant resin

Standard Terminal: F2- AMP faston Tab 250 type

Dimensions: **length:** 5.94 +/- 0.04 inches (151.0 +/- 1.0 mm) **width:** 2.56 +/- 0.04 inches (65.0 +/- 1.0 mm) **height:** 3.86 +/- 0.08 inches with terminal (98.0 +/- 2.0 mm) w/out: 3.70 +/- 0.08 inches (94.0 +/- 2.0 mm)

Charge Voltage Range:

Cycle use	14.4 - 14.7 V
Standby use	13.5 - 13.8 V