

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



PRODUCT: PX12050SHR Super High Rate- rechargeable, valve regulated lead-acid (VRLA) battery
(PX12050SHRV0) *

NOMINAL VOLTAGE: 12 V

NOMINAL CAPACITY:

at 20 hour rate 5.0Ah, 0.25A, FV=10.5V
at 10 hour rate 4.5Ah, 0.45A, FV=10.5V
at 5 hour rate 4.25Ah, 0.85A, FV=10.5V
at 3 hour rate 3.5Ah, 1.17A, FV=10.2V
at 1 hour rate 3.0Ah, 3.0A, FV=9.6V
at 30 minute rate 2.64Ah, 5.28A, FV=9.0V
at 15 minute rate 2.0Ah, 8.0A, FV=9.0V

NOMINAL WATTAGE:

at 60 minute rate 50 watts, FV=9.6V
at 30 minute rate 90 watts, FV=9.6V
at 15 minute rate 142 watts, FV=9.6V
at 10 minute rate 205 watts, FV=9.6V
at 7.5 minute rate 225 watts, FV=9.6V
at 5 minute rate 320 watts, FV=9.6V
at 2.5 minute rate est. 450 watts, FV=9.6V

WEIGHT: (approx.) 4.41 pounds (2,000 grams)

Internal Resistance of Fully Charged Battery: 18 milliohms (approx.)

ENERGY DENSITY: (0.05C) 1.53 Watt-hours / cubic inch (93.4 Watt-hours / liter)

SPECIFIC ENERGY: (0.05C) 13.6 Watt-hours / pound (30.0 Watt-hours / kg)

Maximum Discharge Current with Standard Terminals: 30 amperes (at 25C)

Maximum Short Duration Discharge Current: 75 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 104 degrees F (40 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) *Optional: UL94 V-0 flame retardant resin

Standard Terminal: F2- AMP faston Type 250

Dimensions: **length:** 3.54 +/- 0.04 inches (90.0 +/- 1.0 mm) **width:** 2.76 +/- 0.04 inches (70.0 +/- 1.0 mm) **height:** 4.15 +/- inches with terminal (105.5 +/-2.0 mm)
w/out: 4.02 +/-0.04 inches (102 +/- 1.0 mm)

Charge Voltage Range: Cycle use 14.4 - 14.7 V
Standby use 13.5 - 13.8 V