

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



PRODUCT: PE12V18Ah Rechargeable, valve regulated lead-acid (VRLA) battery

NOMINAL VOLTAGE: 12 V

NOMINAL CAPACITY:

at 20 hour rate	18Ah, 0.9A, FV=10.5V
at 10 hour rate	17.1Ah, 1.8A, FV=10.5V
at 5 hour rate	15.3Ah, 3.1A, FV=10.2V
at 3 hour rate	12.6Ah, 4.2A, FV=9.6V
at 1 hour rate	10.8Ah, 10.8A, FV=9.6V
at 30 minute rate	9Ah, 18A, FV=9.0V
at 15 minute rate	9Ah, 36A, FV=8.1V

NOMINAL WATTAGE:

WEIGHT:(approx.) 14.2 pounds (6,450 grams)

Internal Resistance of Fully Charged Battery: 8.1 milliohms (approx.)

ENERGY DENSITY: (0.05C) 1.54 Watt-hours / cubic inch (94 Watt-hours / liter)

SPECIFIC ENERGY: (0.05C) 15.2 Watt-hours / pound (33.5 Watt-hours / kg)

Maximum Discharge Current with Standard Terminals: 270 amperes (at 25C)

Maximum Short Duration Discharge Current: 360 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: 90%
6 months: 80%

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)

Standard Terminal: B1

Dimensions: **length:** 7.10 +/- 0.04 inches (181.0 +/- 1.0 mm) **width:** 3.00 +/- 0.04 inches (76.0 +/- 1.0 mm) **height:** 6.60 +/- 0.08 inches with terminal (167.0 +/- 1.0 mm)

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

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