Power Supplies

310-120 Series Rechargeable Batteries

The **310-120 Series Rechargeable Batteries** are

non-spillable lead acid batteries. The unique construction and sealing techniques guarantee leakproof operation in any position with no adverse effect to capacity or service life. An electrolyte suspension system consisting of a high porosity, glass fiber material in conjunction with plates, totally absorbs and contains the electrolyte.

The 310-120 Series batteries have an expected life span of 3 to 5 years in float service applications. More that 1000 discharge/recharge cycles can be realized, dependent on the average depth of discharge. They have been designed to withstand occasional over discharge. While it is not recommended, 310-120 Series batteries can recover their full capacity under normal charging conditions, even when they have been subjected to extreme over discharge.

In normal float service, the gases generated inside the battery are continually recombined, and return to the water content of the electrolyte. Therefore, electrical capacity is not lost due to "drying up" of the electrolyte. Actually, through the gradual and very slow corrosion of the electrodes, the battery will eventually lose capacity and come to the end of service life. It should be noted that the corrosive process will be accelerated by high ambient operating temperatures and/or high charging voltage.

The 310-120 Series batteries can be operated in parallel for applications requiring more power. For custom power requirements, factory engineers can design a charging system theat may include large capacity storage batteries.

Specifications

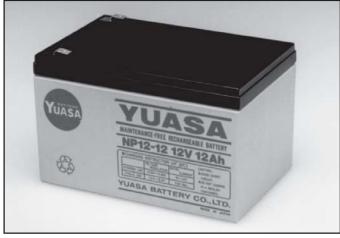
Nominal voltage: 12V Nominal capacity: 310-120: 20 hr rate of 0.20A to 10.5V 4.0Ah 10 hr rate of 0.37A to 10.5V 3.7Ah 5 hr rate of 0.68A to 10.2V 3.4Ah 1 hr rate of 2.40A to 9.60V 2.4Ah 310-121: 20 hr rate of 0.6A to 10.50V 12.0Ah 10 hr rate of 1.1A to 10.50V 11.0Ah 5 hr rate of 2.1A to 10.20V 10.5Ah 1 hr rate of 7.2A to 9.60V 7.2Ah 310-122: 20 hr rate of 0.35A to 10.50V 7.0Ah 10 hr rate of 0.65A to 10.50V 6.5Ah 15 hr rate of 1.19A to 10.20V 5.95Ah 1 hr rate of 4.20A to 9.60V 4.2Ah Weight (approx): 310-120: 3.74 lbs (1.7 kgs) 310-121: 8.82 lbs (4 kgs) 310-122: 6.17 lbs (2.64 kgs.) Operating temperature range: Charge: 5° to 122° F (-15° to 50° C) Discharge: -4° to 140° F (-20° to 60° C) Charge retention (shelf life) at 68° F (20° C): 1 month 97%, 3 months 91%, 6 months 85% Life expectancy: Standby use: 3 to 5 years Cycle use (approx): 100% depth of discharge 250 cycles 50% depth of discharge 550 cycles 30% depth of discharge 1200 cycles

Sealed construction:

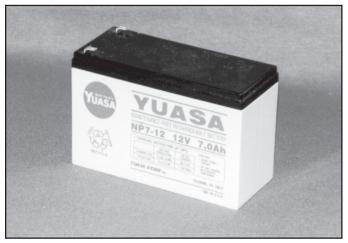
Can be operated in any position without leakage. Housing material: ABS Resin

Ordering Informaton

310-120	Rechargeable Battery, 12 Volt 4 Amp Hour
310-122	Rechargeable Battery, 12 Volt 7 Amp Hour
310-121	Rechargeable Battery, 12 Volt 12 Amp Hour
310-126	Rechargeable Battery, 12 Volt 33 Amp Hour



Model 310-121 12 Amp Hour Battery



Model 310-122 7 Amp Hour Battery

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