



deep cycle battery

The E92 rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by the separators and plates is thus immobilized. The amount of electrolyte is carefully controlled to ensure that the separator is not saturated, allowing for the flow of gasses inside the battery. This allows for the movement of hydrogen and oxygen irons inside the separator, and for the recombination into water within the cell.

Special one way valves are used to allow escape of gases during accidental overcharge.

The battery is designed for a float life of 3 to 5 years with a temperature controlled float charge.

PHDpowerhouse Distributions

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E 9 2 12 V 9 2 A h

General Features

- ♦ Absorbed Glass Mat (AGM) Technology
- ◆ Gas Recombination Technology Low Hydrogen build-up ◆ Lead, Calcium, Tin Alloy grid for high power density
- ◆ Sealed VRLA design—No need for filling
- ♦ ABS Plastic Case and Cover
- ◆ Can be mounted in any orientation

- ♦ Low Self Discharge
- ♦ IATA/ICAO Compliant for Air Transport
- ♦ 6 months storage at 20 °C





Dimensions and Weight

Length 330 mm ± 1 mm

Width 171 mm ± 1 mm

Height of case 215 mm ± 1 mm

Height to Terminal 220 mm ± 1 mm

Approx. Weight 27.9 Kg

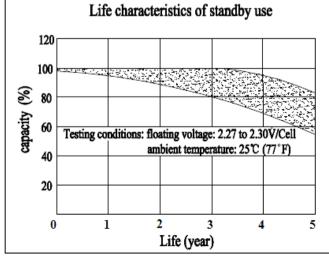
Performance Characteristics

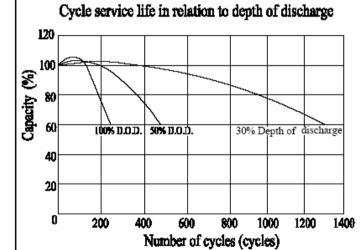
| Nominal Voltage | 12 V dc | Internal Resistance | 5.1 mOhms Full chg, 25 °C |
|------------------------------------|---|-----------------------|------------------------------|
| Trommar voltago | 12 1 40 | The Train Toolstanes | o. i monino i dii ong, 20 |
| Number of Cells | 6 | Short Circuit Current | 2000 A |
| C ₁₀ Capacity (25 °C) | 92 Ah or 9.2 A for 10 hrs to 10.5 Volts | Maximum Discharge | 850 A (5sec) |
| C ₅ Capacity (25 °C) | 81 Ah or 16.2 A for 5 hrs to 10.5 Volts | Self Discharge | 3% per month @ 20 °C |
| C₁ Capacity (25 °C) | 62 Ah or 62.0 A for 1 hr to 9.6 Volts | Design Life | 3 to 5 Years @ 25 °C |
| Standby Use - Float | 13.6 to 13.8 V @ 20 °C | Cycle Use | 14.4 to 14.7 V lmax = 27.6 A |

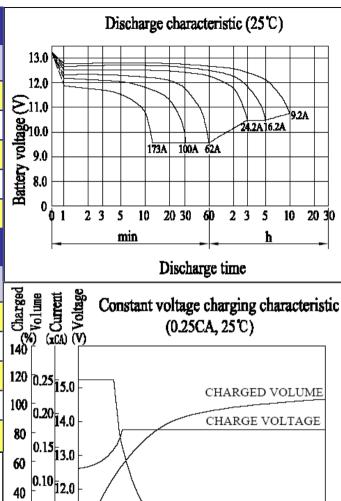
| Constant Current Discharge (Amps @ 25 °C) | | | | | | | | | |
|---|-------|--------|--------|--------|--------|------|------|------|-------|
| End Point Volts/cell | 5 Min | 10 Min | 15 min | 30 min | 45 min | 1 hr | 3 hr | 5 hr | 10 hr |
| 1.60 Vpc | 288 | 218 | 173 | 100 | 74.7 | 62 | 27 | 17.2 | 9.5 |
| 1.65 Vpc | 269 | 208 | 162 | 95 | 71.5 | 56.6 | 26.0 | 17.0 | 9.4 |
| 1.70 Vpc | 252 | 186 | 153 | 90 | 67.9 | 56.0 | 25.0 | 16.7 | 9.3 |
| 1.75 Vpc | 228 | 175 | 142 | 87.3 | 65.5 | 54.6 | 24.2 | 16.2 | 9.2 |
| 1.80 Vpc | 203 | 163 | 132 | 84.2 | 63.0 | 52.4 | 23.1 | 15.7 | 9.1 |

Constant Power Discharge (Watts per Cell @ 25 °C)

| End Point Volts/cell | 5 Min | 10 Min | 15 min | 30 min | 45 min | 1 hr | 2 hr | 3 hr | 5 hr |
|-------------------------|-------|--------|--------|--------|--------|------|------|------|------|
| 1.60 Vpc | 516 | 373 | 308 | 189 | 145 | 117 | 65.5 | 48.3 | 32.3 |
| 1.65 Vpc | 503 | 364 | 303 | 180 | 139 | 112 | 64.1 | 48.1 | 31.9 |
| 1.70 Vpc | 452 | 345 | 284 | 171 | 129 | 107 | 61.8 | 46.8 | 31.5 |
| 1.75 Vpc | 425 | 343 | 281 | 167 | 128 | 103 | 59.8 | 45.4 | 30.7 |
| 1.80 Vpc | 391 | 314 | 267 | 163 | 125 | 101 | 59.1 | 45.2 | 30.3 |









Charging time (hours)

CHARGING CURRENT

10 12 14 16 18

10.05 11.0 ¹

20