



**Electric Vehicle Gel**

# HAZE

**POWER TO KEEP YOU ON THE MOVE**

**ELECTRIC VEHICLE applications are wide and varied with many durability & power demands placed firmly on the batteries shoulders.**



**HAZE ELECTRIC VEHICLE GEL always delivers when you need it, whatever your DC requirement in extreme situations.**



**Tough ABS case with INSERT TERMINALS as standard, smaller sizes with FASTON.**

**Gel Technology delivers cranking amps, general power and long/deep discharges without the need for immediate recharge. EXTRA LONG CYCLE LIFE and resistance to mechanical stress and the elements all in one battery.**



**HAZE ELECTRIC VEHICLE GEL delivers maximum capacity within twenty cycles and keeps delivering long after the others are on the scrap heap. HAZE R&D has resulted in SPECIAL CHEMICAL and PROCESS technology to ensure consistency and performance.**



The Quality & Management system governing the manufacture of this product is ISO 9001:2000 and ISO 14001:2004 certified.

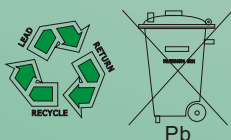


**Important Note:** The capacities and runtimes quoted below are applicable to a battery which has achieved full capacity. Full capacity is achieved after approx. 20 cycles. Initial capacity will be approx. 15 - 20% lower.

| Battery Model | Dimensions (mm) & weight (Kg) |       |        |        | Cold Cranking Amps |            |             | Volts | Thread size mm | Reserve Capacity - Minutes Discharged |         |         |         |        | Capacity - Ampere Hour* |       |       |       |      |      |      |
|---------------|-------------------------------|-------|--------|--------|--------------------|------------|-------------|-------|----------------|---------------------------------------|---------|---------|---------|--------|-------------------------|-------|-------|-------|------|------|------|
|               | Length                        | Width | Height | Weight | 20°C (68°F)        | 0°C (32°F) | -18°C (0°F) |       |                | 75 Amps                               | 25 Amps | 20 Amps | 15 Amps | 8 Amps | 100 Hr                  | 48 Hr | 20 Hr | 10 Hr | 5 Hr | 3 Hr | 1 Hr |
| HZY-EV6-7.5   | 149                           | 34    | 94     | 1.3    | -                  | -          | -           | 6     | NA             | -                                     | -       | -       | -       | -      | 8.6                     | 8.1   | 7.5   | 6.9   | 6.1  | 5.6  | 4.6  |
| HZY-EV6-10    | 151                           | 50    | 95     | 1.8    | -                  | -          | -           | 6     | NA             | -                                     | -       | -       | -       | -      | 11.6                    | 10.9  | 10.1  | 9.2   | 8.2  | 7.6  | 6.2  |
| HZY-EV6-12    | 151                           | 50    | 95     | 1.9    | -                  | -          | -           | 6     | NA             | -                                     | -       | -       | -       | -      | 13.8                    | 13.0  | 12.0  | 11.0  | 9.8  | 9.0  | 7.4  |
| HZY-EV12-7.5  | 150                           | 63    | 95     | 2.5    | -                  | -          | -           | 12    | NA             | -                                     | -       | -       | -       | -      | 8.6                     | 8.1   | 7.5   | 6.9   | 6.1  | 5.6  | 4.6  |
| HZY-EV12-12   | 152                           | 99    | 96     | 3.8    | -                  | -          | -           | 12    | NA             | -                                     | -       | -       | -       | -      | 13.8                    | 13.0  | 12.0  | 11.0  | 9.8  | 9.0  | 7.4  |
| HZY-EV12-18   | 181                           | 76    | 167    | 5.4    | 204                | 137        | 84          | 12    | 5              | -                                     | -       | 26      | 45      | 93     | 19.6                    | 18.4  | 17.0  | 15.6  | 13.8 | 12.8 | 10.5 |
| HZY-EV12-26   | 168                           | 178   | 124    | 8.8    | 301                | 217        | 142         | 12    | 5              | -                                     | 23      | 41      | 66      | 144    | 28.8                    | 27.0  | 25.0  | 22.9  | 20.4 | 18.8 | 15.5 |
| HZY-EV12-33   | 196                           | 131   | 160    | 10.2   | 350                | 260        | 172         | 12    | 6              | 6.9                                   | 30      | 53      | 77      | 173    | 34.2                    | 32.3  | 29.3  | 28.0  | 24.7 | 23.3 | 18.6 |
| HZY-EV12-44   | 198                           | 167   | 157    | 13.5   | 450                | 337        | 220         | 12    | 6              | 12                                    | 55      | 80      | 115     | 242    | 45.3                    | 41.6  | 39.0  | 37.0  | 33.1 | 29.4 | 24.3 |
| HZY-EV12-55   | 229                           | 138   | 213    | 16.8   | 569                | 444        | 294         | 12    | 6              | 19                                    | 86      | 120     | 168     | 351    | 61.0                    | 57.2  | 53.0  | 48.5  | 43.1 | 39.9 | 32.8 |
| HZY-EV12-60   | 260                           | 168   | 180    | 21.5   | 686                | 563        | 420         | 12    | 6              | 28                                    | 115     | 155     | 218     | 458    | 72.0                    | 68.0  | 64.0  | 60.0  | 55.0 | 50.0 | 38.0 |
| HZY-EV12-70J  | 349                           | 168   | 175    | 22.6   | 663                | 530        | 367         | 12    | 6              | 27                                    | 117     | 159     | 218     | 460    | 78.2                    | 73.4  | 68.0  | 62.2  | 55.4 | 51.1 | 42.1 |
| HZY-EV12-65   | 272                           | 165   | 188    | 21.5   | 708                | 573        | 400         | 12    | 6              | 32                                    | 135     | 180     | 251     | 519    | 86.3                    | 81.0  | 75.0  | 68.6  | 61.1 | 56.4 | 46.4 |
| HZY-EV12-80   | 260                           | 168   | 211    | 24.0   | 740                | 600        | 425         | 12    | 8              | 33                                    | 144     | 195     | 270     | 560    | 90.7                    | 85.4  | 80.0  | 72.8  | 66.1 | 60.6 | 49.9 |
| HZY-EV12-100  | 306                           | 168   | 211    | 28.3   | 820                | 715        | 520         | 12    | 8              | 45                                    | 174     | 230     | 324     | 672    | 110                     | 104   | 96.0  | 87.8  | 78.1 | 72.2 | 59.4 |
| HZY-EV12-110  | 329                           | 173   | 209    | 30.9   | 854                | 766        | 560         | 12    | 8              | 49                                    | 188     | 253     | 363     | 750    | 118                     | 112   | 104   | 95.8  | 85.9 | 78.7 | 64.4 |
| HZY-EV12-120  | 409                           | 177   | 225    | 34.5   | 917                | 835        | 650         | 12    | 8              | 61                                    | 225     | 288     | 414     | 864    | 138                     | 130   | 120   | 110   | 97.7 | 90.2 | 74.3 |
| HZY-EV12-135  | 342                           | 173   | 282    | 41.9   | 998                | 906        | 762         | 12    | 8              | 84                                    | 276     | 368     | 519     | 1064   | 167                     | 157   | 145   | 133   | 118  | 109  | 89.8 |
| HZY-EV12-150  | 483                           | 170   | 242    | 45.0   | 1011               | 919        | 784         | 12    | 8              | 88                                    | 288     | 384     | 540     | 1110   | 173                     | 162   | 150   | 137   | 122  | 113  | 92.9 |
| HZY-EV12-160  | 530                           | 209   | 214    | 54.9   | 1028               | 938        | 811         | 12    | 8              | 95                                    | 318     | 414     | 582     | 1200   | 184                     | 173   | 160   | 146   | 130  | 120  | 99.0 |
| HZY-EV12-200  | 522                           | 242   | 220    | 63.3   | 1094               | 988        | 909         | 12    | 8              | 142                                   | 438     | 564     | 796     | 1654   | 239                     | 227   | 214   | 196   | 171  | 161  | 131  |
| HZY-EV12-230  | 521                           | 270   | 205    | 74.5   | 1117               | 1007       | 940         | 12    | 8              | 167                                   | 528     | 678     | 915     | 1949   | 282                     | 265   | 245   | 224   | 199  | 184  | 152  |
| HZY-EV6-110   | 193                           | 168   | 204    | 17.9   | 880                | 789        | 577         | 6     | 8              | 53                                    | 209     | 268     | 372     | 793    | 129                     | 121   | 112   | 102   | 91.2 | 84.2 | 69.3 |
| HZY-EV6-160   | 298                           | 171   | 226    | 26.9   | 1059               | 966        | 835         | 6     | 8              | 111                                   | 342     | 444     | 624     | 1290   | 196                     | 184   | 170   | 156   | 138  | 128  | 105  |
| HZY-EV6-180   | 260                           | 181   | 246    | 28.9   | 1071               | 972        | 868         | 6     | 8              | 120                                   | 366     | 474     | 666     | 1398   | 207                     | 194   | 180   | 165   | 147  | 135  | 111  |
| HZY-EV6-180-2 | 260                           | 181   | 246    | 28.9   | 1090               | 980        | 890         | 6     | 8              | 138                                   | 420     | 555     | 741     | 1527   | 224                     | 211   | 195   | 184   | 167  | 141  | 115  |
| HZY-EV6-200   | 323                           | 178   | 226    | 31.1   | 1083               | 978        | 900         | 6     | 8              | 133                                   | 402     | 516     | 720     | 1524   | 223                     | 210   | 194   | 178   | 158  | 146  | 120  |
| HZY-EV6-225   | 244                           | 188   | 275    | 31.9   | 1116               | 1007       | 927         | 6     | 8              | 147                                   | 462     | 602     | 828     | 1770   | 253                     | 238   | 220   | 201   | 179  | 165  | 136  |
| HZY-EV6-335   | 295                           | 178   | 350    | 48.0   | 1650               | 1395       | 1228        | 6     | 8              | 210                                   | 780     | 960     | 1300    | 2530   | 370                     | 340   | 320   | 300   | 280  | 250  | 180  |
| HZY-EV8-160   | 260                           | 182   | 298    | 36.4   | 1045               | 955        | 829         | 8     | 8              | 103                                   | 330     | 432     | 597     | 1176   | 181                     | 170   | 157   | 144   | 128  | 118  | 97.2 |

**Battery Charging:** Haze recommend the following charging profile to optimise cycle and battery life. Charging Voltage (max) 2.41vpc Charging Current Max 20 Hour Ah / 5 e.g. HZY-EV12 100 = 94/5 = 18.8A. It is recommended that the charging voltage be switch to Float (2.27-2.3vpc) when the battery is fully charged. (The above parameters apply to 20-25 °C

**Cycle Life:** To ensure maximum cycle life it is recommended that the battery be fully recharged as soon as possible after use. Cycle life is very dependant on the depth of discharge (DOD). The following is a guide to the number of cycles expected. 100% DOD - 400 cycles, 75% DOD - 450 cycles, 50% DOD - 650 cycles.



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

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Website: [www.hazebattery.com](http://www.hazebattery.com)  
E mail : [sales@hazebattery.com](mailto:sales@hazebattery.com)