

Power

Alpha OGi

Stationary Flat Plate Flooded Lead Acid Battery



- Power ranges available:
 - 12 volts from 25 to 150 Ah
 - 6 volts from 175 to 300 Ah
 - 2 volts from 600 to 900 Ah
- Wide operating temperature range from -20°C to +55°C
- 20 year design life
- 2 year - 100% full warranty

The Alpha OGi battery is designed to provide battery power for critical applications. The flooded lead acid battery, with its low level of self-discharge, makes it ideal for back up power applications in the telecommunication, utility, and transportation industries. The transparent, impact-resistant container allows the user to easily observe electrolyte levels, as the batteries require minimal topping throughout their lifecycle. The Alpha OGi batteries are approved to DIN 40 737, IEC 896-1 and VDE 0510 standards.

Alpha OGi Feature Summary

Alpha OGi 12, 6 and 2 Volt

| | |
|----------------------------|--|
| Standard Warranty: | 2 yr full/18 yr prorated |
| Battery Type: | Stationary Flooded Lead Acid |
| Range of Capacity: | 25Ah - 900Ah |
| Recommended Float Voltage: | 1.24VPC @ 20°C (68°F) |
| Operational Temperature: | 25°C (77°F) |
| Terminal Type: | Threaded Copper Insert |
| Positive Electrode: | Round-grid plate with circular bars available with low antimony |
| Negative Electrode: | Flat plate with long life expander and available with low antimony |
| Separation: | Microporous separator |
| Electrolyte: | Sulfuric acid of 1,250 ± 0,01 kg/l at 20°C |
| Container: | High impact, transparent SAN |
| Lid: | SAN in dark grey color |

Operational Data

Alpha OGi 12, 6 and 2 Volt

| | |
|---------------------------|---|
| Water refilling interval: | More than 3 years at 20°C |
| IEC 896-1 Cycles: | 1000 cycles |
| Self-discharge: | Approx. 3% per month at 20°C |
| Operational Temperature: | -20°C to 55°C, recommended -10°C to 30°C |
| Ventilation Requirement: | f1=0,5 (low-antimony alloy) according VDE 0510 part 2 |
| Measurements According: | DIN 40 737 part |
| Tests According: | IEC 896-1 |
| Applicable Standards: | VDE 0510, part 2 |

Mechanical Specifications

| Type | L (in/mm) | W (in/mm) | H (in/mm) | Wt. (lb/kg) Batt w/ electrolyte | Wt. (lb/kg) electrolyte only |
|-----------------|-----------|-----------|-----------|---------------------------------|------------------------------|
| 1 OGi-Ca 12-25 | 10.7/272 | 8.1/205 | 14.8/375 | 72.8/33 | 24.3/11.0 |
| 2 OGi-Ca 12-50 | 10.7/272 | 8.1/205 | 14.8/375 | 90.4/41 | 24.0/10.9 |
| 3 OGi-Ca 12-75 | 10.7/272 | 8.1/205 | 14.8/375 | 108/49 | 23.8/10.8 |
| 4 OGi-Ca 12-100 | 10.7/272 | 8.1/205 | 14.8/375 | 128/58 | 23.6/10.7 |
| 5 OGi-Ca 12-125 | 15.0/380 | 8.1/205 | 14.8/375 | 165/78 | 34.6/15.7 |
| 6 OGi-Ca 12-150 | 15.0/380 | 8.1/205 | 14.8/375 | 189/86 | 34.2/15.5 |
| 7 OGi-Ca 6-175 | 10.7/272 | 8.1/205 | 14.8/375 | 108/49 | 24.9/11.3 |
| 8 OGi-Ca 6-200 | 10.7/272 | 8.1/205 | 14.8/375 | 116/53 | 24.5/11.1 |
| 9 OGi-Ca 6-225 | 15.0/380 | 8.1/205 | 14.8/375 | 150/68 | 36.2/16.4 |
| 10 OGi-Ca 6-250 | 15.0/380 | 8.1/205 | 14.8/375 | 159/72 | 35.0/16.3 |
| 11 OGi-Ca 6-275 | 15.0/380 | 8.1/205 | 14.8/375 | 165/75 | 35.7/16.2 |
| 12 OGi-Ca 6-300 | 15.0/380 | 8.1/205 | 14.8/375 | 174/79 | 35.3/16.0 |
| 24 OGi-Ca 2-600 | 8.1/205 | 10.7/272 | 14.8/375 | 117/53 | 24.5/11.1 |
| 30 OGi-Ca 2-750 | 8.1/205 | 15.0/380 | 14.8/375 | 159/72 | 36.0/16.3 |
| 36 OGi-Ca 2-900 | 8.1/205 | 15.0/380 | 14.8/375 | 174/79 | 35.3/16.0 |

Amperes to Final Voltage of 1.75 VPC at 20°C (68°F)

| Type | Minutes | | | | | | | Hours | | | | | |
|----------------|---------|------|------|------|------|------|------|-------|------|------|------|------|------|
| | 3 | 5 | 10 | 15 | 20 | 30 | 45 | 1 | 2 | 3 | 5 | 8 | 10 |
| 1OGi-Ca 12-25 | 64.2 | 57.9 | 47.2 | 39.7 | 34.1 | 26.4 | 20.0 | 16.5 | 10.1 | 7.5 | 5.1 | 3.6 | 2.9 |
| 2OGi-Ca 12-50 | 126 | 114 | 92.8 | 78.1 | 67.2 | 51.9 | 39.3 | 32.3 | 19.9 | 14.9 | 9.9 | 6.9 | 5.7 |
| 3OGi-Ca 12-75 | 189 | 171 | 139 | 118 | 101 | 78.3 | 59.3 | 48.7 | 30.1 | 22.5 | 14.9 | 10.5 | 8.5 |
| 4OGi-Ca 12-100 | 251 | 227 | 185 | 155 | 133 | 104 | 78.6 | 64.6 | 39.9 | 29.8 | 19.7 | 13.9 | 11.3 |
| 5OGi-Ca 12-125 | 303 | 276 | 225 | 190 | 164 | 128 | 98.0 | 80.4 | 49.6 | 37.1 | 24.6 | 17.4 | 14.1 |
| 6OGi-Ca 12-150 | 352 | 322 | 264 | 225 | 193 | 154 | 117 | 96.6 | 59.7 | 44.6 | 29.7 | 20.8 | 17.0 |
| 7OGi-Ca 6-175 | 381 | 349 | 291 | 251 | 219 | 176 | 135 | 112 | 69.5 | 52.0 | 34.5 | 24.3 | 19.7 |
| 8OGi-Ca 6-200 | 436 | 400 | 333 | 288 | 252 | 201 | 155 | 128 | 79.7 | 59.6 | 39.5 | 27.9 | 22.6 |
| 9OGi-Ca 6-225 | 490 | 448 | 374 | 323 | 283 | 226 | 174 | 144 | 89.5 | 66.9 | 44.3 | 31.2 | 25.4 |
| 10OGi-Ca 6-250 | 504 | 462 | 295 | 345 | 307 | 247 | 191 | 160 | 99.2 | 74.5 | 49.4 | 34.8 | 28.3 |
| 11OGi-Ca 6-275 | 553 | 508 | 433 | 379 | 337 | 271 | 210 | 176 | 109 | 81.7 | 54.3 | 38.2 | 31.0 |
| 12OGi-Ca 6-300 | 604 | 555 | 473 | 414 | 368 | 297 | 229 | 192 | 119 | 89.4 | 59.2 | 41.8 | 33.9 |
| 20OGi-Ca 2-600 | 1309 | 1199 | 1000 | 863 | 756 | 604 | 464 | 384 | 239 | 179 | 118 | 84 | 68 |
| 30OGi-Ca 2-750 | 1512 | 1387 | 884 | 1036 | 920 | 741 | 574 | 479 | 298 | 223 | 148 | 104 | 85 |
| 36OGi-Ca 2-900 | 1812 | 1664 | 1420 | 1241 | 1104 | 890 | 687 | 574 | 357 | 268 | 178 | 125 | 102 |

Amperes to Final Voltage of 1.80 VPC at 20°C (68°F)

| Type | Minutes | | | | | | | Hours | | | | | |
|-----------------|---------|------|------|------|------|------|------|-------|------|------|------|------|------|
| | 3 | 5 | 10 | 15 | 20 | 30 | 45 | 1 | 2 | 3 | 5 | 8 | 10 |
| 1 OGi-Ca 12-25 | 52.7 | 48.6 | 41.3 | 35.5 | 31.2 | 24.6 | 19.1 | 15.9 | 9.9 | 7.4 | 5.0 | 3.5 | 2.9 |
| 2 OGi-Ca 12-50 | 103 | 95.3 | 81.1 | 69.6 | 61.2 | 48.4 | 37.4 | 31.3 | 19.6 | 14.6 | 9.8 | 6.9 | 5.5 |
| 3 OGi-Ca 12-75 | 156 | 144 | 122 | 105 | 92.3 | 73.0 | 56.5 | 47.2 | 29.5 | 22.0 | 14.8 | 10.3 | 8.0 |
| 4 OGi-Ca 12-100 | 207 | 191 | 162 | 139 | 122 | 96.7 | 74.9 | 62.5 | 39.1 | 29.3 | 19.7 | 13.7 | 10.5 |
| 5 OGi-Ca 12-125 | 249 | 230 | 196 | 170 | 149 | 119 | 93 | 77.7 | 48.7 | 36.4 | 24.5 | 17.0 | 13.5 |
| 6 OGi-Ca 12-150 | 289 | 269 | 227 | 200 | 175 | 143 | 111 | 93.4 | 58.7 | 43.9 | 29.5 | 20.5 | 16.5 |
| 7 OGi-Ca 6-175 | 314 | 292 | 250 | 222 | 199 | 163 | 128 | 108 | 68.2 | 51.1 | 34.4 | 23.8 | 19.3 |
| 8 OGi-Ca 6-200 | 359 | 334 | 287 | 255 | 227 | 187 | 147 | 124 | 78.2 | 58.6 | 39.3 | 27.3 | 22.8 |
| 9 OGi-Ca 6-225 | 403 | 375 | 323 | 286 | 255 | 210 | 165 | 140 | 87.8 | 65.7 | 44.2 | 30.7 | 25.4 |
| 10 OGi-Ca 6-250 | 416 | 386 | 339 | 305 | 277 | 228 | 183 | 156 | 97.8 | 73.2 | 49.2 | 34.2 | 27.0 |
| 11 OGi-Ca 6-275 | 458 | 424 | 371 | 335 | 305 | 250 | 201 | 171 | 107 | 80.3 | 54.0 | 37.5 | 30.4 |
| 12 OGi-Ca 6-300 | 499 | 464 | 406 | 365 | 333 | 274 | 218 | 187 | 117 | 87.8 | 59.0 | 41.0 | 32.0 |
| 20 OGi-Ca 2-600 | 1078 | 1001 | 861 | 766 | 682 | 560 | 441 | 372 | 235 | 176 | 118 | 82 | 68 |
| 30 OGi-Ca 2-750 | 1248 | 1159 | 1016 | 915 | 831 | 685 | 548 | 468 | 293 | 220 | 147 | 102 | 81 |
| 36 OGi-Ca 2-900 | 1498 | 1391 | 1218 | 1096 | 998 | 822 | 655 | 560 | 352 | 263 | 177 | 123 | 96 |

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049-215-19-001 (11/2004)

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