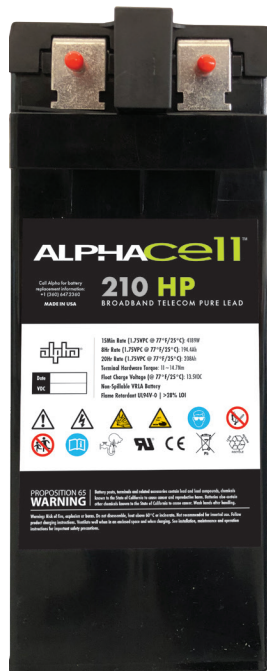


AlphaCell® HP

Broadband Telecom Thin Plate Pure Lead Front Terminal Battery



Features:

- High power density (4.1kW at 15min rate)
- 4 year full warranty
- Superior float life (15 years at 77°F/25°C)
- TPPL technology allows for stable voltage delivery
- Wide temperature range:
-40 to 176°F (-40 to 80°C)
- UL-94 V0 rated flame retardant case
- TPPL technology allows for 2hr recharge time at 100A
- 18 month shelf life at 77°F (25°C)

The AlphaCell HP TPPL battery is a premium high performance, float service battery suitable for broadband inside plant, telecommunications and high-rate UPS applications.

The AlphaCell HP battery is a VRLA-AGM battery utilizing TPPL technology that yields advantages such as extended float service life and longer shelf life. Further benefits include fast recharge, high-rate UPS operation and demand response with deep discharge capabilities.

AlphaCell HP front terminal provides optimal back-up runtime for your network power needs with potential future proof of demand response—providing energy security in the harshest of environments.

| General Details | |
|--------------------------------------|--|
| Nominal Voltage: | 12V |
| Amp Hour Capacity 20Hr Rate: | 208Ah |
| Operating Temperature: | -40 to 176 °F (-40 to 80 °C) with optional metal jacket |
| Shelf Life: | 18 month shelf life at 77 °F (25 °C) |
| Cycle Life: | Up to 400 cycles at 80% depth of discharge |
| Dimensions H x W x D (in/mm): | 12.46 x 4.92 x 22.57 / 316.5 x 125.0 x 580.9 |
| Weight Approximate (lbs/kg): | 132.3 / 60 |
| Torque (in-lb/Nm): | 44 / 5.0 |
| Internal Resistance*: | 3.5mΩ |
| Short Circuit*: | 4000A |
| Warranty: | 4 year full replacement in temperature controlled, inside plant, float service applications only |

*Tested per IEC 60896 Part 21

| Construction | |
|---|--|
| <ul style="list-style-type: none"> • 12V pure lead-tin Valve Regulated Lead Acid (VRLA) • Absorbent Glass Mat (AGM) battery • UL-94 V.0 flame retardant case and cover • M6 no-maintenance terminals • Can be installed in any orientation except inverted | |

| Standards | |
|--|--|
| <ul style="list-style-type: none"> • Non-spillable classification • Approved for shipping as non-hazardous, non spillable (refer to SDS sheet) • Recognized by UL File no. MH18697 • ISO 9001 and ISO 140001 certified | |

| Constant Current Discharge Rate in Amps at 77°F (25°C) | | | | | | | | | | | | | | | |
|--|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| Discharge Time: | 2min | 5min | 10min | 15min | 20min | 30min | 45min | 1hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 20hr |
| 1.50VPC: | 1009.4 | 749.4 | 527.5 | 411.5 | 339.3 | 270.0 | 197.5 | 156.3 | 86.2 | 60.5 | 46.5 | 37.8 | 25.0 | 20.3 | 10.6 |
| 1.67VPC: | 787.6 | 640.8 | 476.6 | 380.4 | 318.5 | 255.4 | 189.1 | 150.8 | 84.2 | 58.7 | 45.2 | 36.9 | 24.3 | 19.8 | 10.4 |
| 1.75VPC: | 643.1 | 552.1 | 424.4 | 345.8 | 293.0 | 238.6 | 179.1 | 144.0 | 81.7 | 57.4 | 44.3 | 36.2 | 23.9 | 19.4 | 10.2 |
| 1.85VPC: | 462.1 | 428.1 | 347.2 | 291.2 | 251.5 | 210.0 | 161.3 | 131.6 | 76.8 | 54.6 | 42.5 | 34.8 | 23.1 | 18.8 | 9.7 |

| Constant Power Discharge Rate in Watts at 77°F (25°C) | | | | | | | | | | | | | | | |
|---|------|------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|------|------|
| Discharge Time: | 2min | 5min | 10min | 15min | 20min | 30min | 45min | 1hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 20hr |
| 1.50VPC: | 9185 | 7426 | 5513 | 4463 | 3748 | 3020 | 2248 | 1799 | 1013 | 718 | 555 | 453 | 300 | 244 | 128 |
| 1.67VPC: | 7917 | 6726 | 5148 | 4189 | 3547 | 2888 | 2169 | 1746 | 993 | 699 | 541 | 442 | 293 | 238 | 125 |
| 1.75VPC: | 6737 | 5965 | 4694 | 3875 | 3313 | 2730 | 2073 | 1679 | 968 | 685 | 531 | 435 | 289 | 235 | 123 |
| 1.85VPC: | 5069 | 4806 | 3961 | 3352 | 2913 | 2452 | 1897 | 1555 | 918 | 656 | 512 | 420 | 280 | 227 | 118 |

| Constant Power Discharge Rate in Watts/Cell at 77°F (25°C) | | | | | | | | | | | | | | | |
|--|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| Discharge Time: | 2min | 5min | 10min | 15min | 20min | 30min | 45min | 1hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 20hr |
| 1.50VPC: | 1530.83 | 1237.67 | 918.83 | 743.83 | 624.67 | 503.33 | 374.67 | 299.83 | 168.83 | 119.67 | 92.50 | 75.50 | 50.00 | 40.67 | 21.33 |
| 1.67VPC: | 1319.50 | 1121.00 | 858.00 | 698.17 | 591.17 | 481.33 | 361.50 | 291.00 | 165.50 | 116.50 | 90.17 | 73.67 | 48.83 | 39.67 | 20.83 |
| 1.75VPC: | 1122.83 | 994.17 | 782.33 | 645.83 | 552.17 | 455.00 | 345.50 | 279.83 | 161.33 | 114.17 | 88.50 | 72.50 | 48.17 | 39.17 | 20.50 |
| 1.85VPC: | 844.83 | 801.00 | 660.17 | 558.67 | 485.50 | 408.67 | 316.17 | 259.17 | 153.00 | 109.33 | 85.33 | 70.00 | 46.67 | 37.83 | 19.67 |



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