

Power

AlphaCell™ HPL-FT

Front Terminal Batteries



- Front terminal design with protective covers
- Specifically designed for mission-critical applications
- High cyclic life capability
- Flame retardant case and cover (to UL94VO)
- 3-step terminal seal design ensures leak-free operation
- Integral handles (*115HPL-FT, 220HPL-FT*) for ease of handling
- Approved as non-hazardous cargo for ground/sea/air transportation
- Ideally suited for use in Alpha NPS and FT enclosures

Alpha expands its AlphaCell battery family to include the HPL-FT Series of front terminal batteries for Broadband Cable and Telecommunication applications. The AlphaCell HPL-FT series are valve regulated lead acid batteries designed for long life. Benefits of these new batteries include: central gassing system, snap-in front covers, integral flame arrestor, construction from recyclable materials and low self discharge rates. The HPL-FT 115 and 220 series batteries feature a handle for carrying convenience.



Specifications, AlphaCell HPL-FT Series Batteries

| | 70HPL-FT | 115HPL-FT | 220HPL-FT |
|---------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| Standard Warranty ¹ : | 3 years | 3 years | 3 years |
| Service Life: | Long | Long | Long |
| VRLA Battery Type: | High-performance Lead Alloy | High-performance Lead Alloy | High-performance Lead Alloy |
| Heat Resistant: | High | High | High |
| Hydrogen Emission: | Low | Low | Low |
| Terminals: | 14mm Insert M8 x 1.25 thread | 14mm Insert M8 x 1.25 thread | 14mm Insert M8 x 1.25 thread |
| Terminal Torque: | 8Nm | 8Nm | 8Nm |
| Case Material: | VO | VO | VO |
| Typical Runtime (min) ² : | 70 | 115 | 220 |
| Cells Per Unit: | 6 | 6 | 6 |
| Voltage Per Unit: | 12.8 | 12.8 | 12.8 |
| Conductance Value: | 1050 | 1200 | 1600 |
| Max. Discharge Current (A): | 1000 | 1000 | 1000 |
| Short Circuit Current (A): | 1400 | 2000 | 3500 |
| 10 Second Volts @ 100A: | 11.3 | 11.5 | 11.7 |
| Ohms Impedance 1 kHz: | 6.5mOhms | 4.1mOhms | 2.5mOhms |
| Capacity at 20hrs (to 1.75VPC) @ 25°C/77°F: | 42Ah | 62Ah | 107Ah |
| Weight (lb/kg): | 27.9/15.3 | 46.2/22.2 | 78.5/36 |
| Height (in/mm): | 8.21/209 | 10.3/263 | 11.3/287 |
| Width (in/mm) ³ : | 3.81/97 | 4.2/108 | 4.24/108 |
| Depth (in/mm) ³ : | 9.84/250 | 11.3/287 | 15.59/396 |
| Operating Temperature Range | | | |
| Discharge (C): | -40°C to 60°C (-40°F to 140°F) | -40°C to 60°C (-40°F to 140°F) | -40°C to 60°C (-40°F to 140°F) |
| Charge (with temp compensation)(C): | -40°C to 60°C (-40°F to 140°F) | -40°C to 60°C (-40°F to 140°F) | -40°C to 60°C (-40°F to 140°F) |
| Float Charging Voltage @ 25°C/77°F (Vdc): | 13.5 to 13.6 | 13.5 to 13.6 | 13.5 to 13.6 |
| AC Ripple Charger: | 0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P | | |

Notes:
¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
² Runtimes at 25A to 1.75VPC @ 25°C. No deep discharge cycling required to obtain maximum runtime ratings.
³ Dimensions at battery base.

The tables below show the amount of battery runtime (in hours) as a function of Power Supply model, output voltage, Battery type, number of batteries per string, and the size of the supported load (in AC Amps). A supported load of eight Amps is shown as a common reference point.

| Battery Model | Supported Load (AC Amps) | | | | | | | | |
|------------------------|--------------------------|------|------|------|------|------|------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| XM2 906 (36Vdc) | Runtime (in Hours) | | | | | | | | |
| | AlphaCell 70 HPL x 3 | 12.9 | 7.9 | 6.1 | 4.7 | 3.8 | 3.1 | 2.8 | 2.3 |
| | 60V | 8.3 | 5 | 3.8 | 3 | 2.3 | 1.9 | N/A | N/A |
| | 90V | | | | | | | | |
| | AlphaCell 115 HPL x 3 | 20 | 12.6 | 9.7 | 7.6 | 5.9 | 5 | 4.2 | 3.7 |
| | 60V | 12.7 | 8.1 | 6.1 | 4.8 | 3.7 | 3.1 | N/A | N/A |
| XM2 915 (36Vdc) | Supported Load (AC Amps) | | | | | | | | |
| | Runtime (in Hours) | | | | | | | | |
| | AlphaCell 70 HPL x 3 | 4.4 | 3.6 | 3 | 2.6 | 2.2 | 1.7 | 1.4 | 1.1 |
| | 60V | 2.7 | 2.2 | 1.8 | 1.6 | 1.3 | 1 | 0.8 | 0.7 |
| | 90V | | | | | | | | |
| | AlphaCell 115 HPL x 3 | 7.1 | 5.7 | 4.8 | 4.1 | 3.6 | 2.8 | 2.3 | 1.9 |
| | 60V | 4.4 | 3.6 | 3 | 2.6 | 2.2 | 1.7 | 1.4 | 1.1 |
| | 90V | | | | | | | | |
| | AlphaCell 220 HPL x 3 | 12.8 | 10.5 | 9 | 7.7 | 6.7 | 5.3 | 4.4 | 3.7 |
| | 60V | 8.3 | 6.7 | 5.7 | 4.9 | 4.2 | 3.3 | 2.8 | 2.3 |
| | 90V | | | | | | | | |
| | AlphaCell 220 HPL x 6 | 26.9 | 22.1 | 18.8 | 16.2 | 13.9 | 11.2 | 9.4 | 8 |
| 60V | 17.4 | 14.1 | 12 | 10.6 | 9.2 | 7.3 | 6 | 5.2 | |
| XM2 922 (48Vdc) | Supported Load (AC Amps) | | | | | | | | |
| | Runtime (in Hours) | | | | | | | | |
| | AlphaCell 115 HPL x 4 | 4.1 | 3.5 | 3 | 2.6 | 2.3 | 2 | 1.8 | 1.5 |
| | 60V | 2.5 | 2.2 | 1.9 | 1.6 | 1.4 | 1.2 | 1 | 0.9 |
| | 90V | | | | | | | | |
| | AlphaCell 220 HPL x 4 | 7.6 | 6.6 | 5.7 | 5 | 4.4 | 3.9 | 3.4 | 3.1 |
| | 60V | 4.8 | 4.2 | 3.6 | 3.2 | 2.8 | 2.4 | 2.2 | 1.9 |
| | 90V | | | | | | | | |
| | AlphaCell 220 HPL x 8 | 16 | 13.9 | 12 | 10.6 | 9.4 | 8.3 | 7.5 | 6.8 |
| | 60V | 10.1 | 9 | 7.8 | 6.9 | 6 | 5.3 | 4.8 | 4.3 |
| | 90V | | | | | | | | |

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