



PowerSafe® DU

Telecommunications

NEBS™ Certified

Battery Range Summary



The PowerSafe® DU battery series has been designed to handle the demanding float and deep discharges typical for telecommunication applications. The DU battery series features proven flat plate lead-calcium grid alloy and is the largest amp hour capacity four cell battery in the industry ranging from 310 to 780Ah. The DU series multi-cell construction shortens installation time and reduces the battery string footprint.

The DU battery series has been designed with the edge of the plates oriented perpendicular to the rack rails for full plate edge visibility. The dual hole (top/bottom) terminal design allows for easy maintenance.

The DU battery series employs the EnerSys® proven Slide-Lock™ post seal that allows for natural plate growth over time without degrading the seal. The innovative tongue-and-groove jar-to-cover seal provides reliability with a robust airtight seal.

Features and Benefits

- Capacity Range: 310 – 780Ah
- Flat plate, lead-calcium grid alloy, well suited for long duration float applications
- Proven Slide-Lock™ post seal design
- Positive and negative posts on each cell allow for monitoring of individual cells
- Standard UL94 V-0 flame retardant cover and container
- NEBS™ level 3 certified for systems with a nominal voltage under 80V
- Application: suitable for installation in network telecommunication facilities
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature

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Construction

- 0.25" thick positive plates provide long discharge rates and long life
- Lead plated copper posts - one positive and one negative post per cell
- Cover - standard PVC UL94 V-0 LOI>28%
- Container - standard PC UL94 V-0 LOI>28%
- Separator - microporous phenolic with "Vitrex" glass fiber retainers
- 1.215 specific gravity nominal at 77°F (25°C)
- Intercell connectors - lead-plated copper, optional tin-plated copper
- Proven Slide-Lock™ post seal design

Installation and Operation

- Maintenance connectors available
- Flat plate, lead-calcium grid alloy, well suited for long duration float applications
- 20 year life expectancy in float service at 77°F (25°C) ambient temperature
- Operating temperature: 32°F (0°C) to 104°F (40°C)
Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

| Cell Type* | Nominal Ah Capacity ¹ | Nominal Dimensions | | | | | | Weight - Volumes | | | | | | | |
|------------|----------------------------------|--------------------|-----|-------|-----|--------|-----|------------------|-----|----------|-----|--------------------------------|----|------|--------|
| | | Length** | | Width | | Height | | Height*** | | Unpacked | | Electrolyte only 1.215 S.G. | | | |
| | | in | mm | in | mm | in | mm | in | mm | lbs | kg | lbs | kg | gal | liters |
| 4DU-05 | 310 | 9.5 | 241 | 16.0 | 406 | 22.7 | 576 | 26.9 | 683 | 267 | 121 | 64 | 29 | 6.3 | 24 |
| 4DU-07 | 395 | 9.5 | 241 | 16.0 | 406 | 22.7 | 576 | 26.9 | 683 | 328 | 149 | 59 | 27 | 5.8 | 22 |
| 4DU-09 | 625 | 16.7 | 424 | 16.0 | 406 | 22.7 | 576 | 28.8 | 732 | 494 | 224 | 134 | 61 | 13.2 | 50 |
| 4DU-11 | 715 | 16.7 | 424 | 16.0 | 406 | 22.7 | 576 | 28.8 | 732 | 555 | 252 | 123 | 56 | 12.2 | 46 |
| 4DU-13 | 780 | 16.7 | 424 | 16.0 | 406 | 22.7 | 576 | 28.8 | 732 | 617 | 280 | 113 | 51 | 11.1 | 42 |

* Prefix number indicates cells per unit. Suffix number indicates total plates per cell.

** 0.25" must be added between units for spacing purposes when calculating total battery length.

***Includes height to top of terminal plate.

¹ Nominal Ah capacity is based on an 8 hour rate to 1.75 volts per cell @ 77°F (25°C).

¹ Values listed represent 100% of the cell's capacity. Initial capacity shall be minimum of 90% of these values per IEEE 450.

