



# **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.

NEBS™ Certified

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<sup>™</sup> 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<sup>™</sup> 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



#### 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**

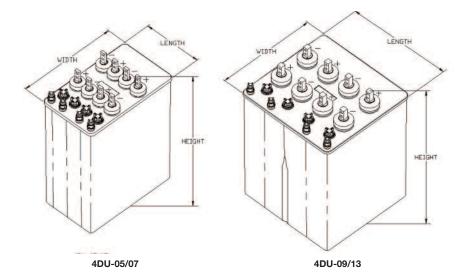
 The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

## **General Specifications**

	Nominal Ah Capacity¹		Nominal Dimensions							Weight - Volumes					
Cell Type*		Len in	gth** mm	Wi in	dth mm	Hei in	ght mm	Heigh in	nt*** mm	Unpa Ibs	cked kg	lbs		lyte only 5 S.G. 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

<sup>\*</sup> Prefix number indicates cells per unit. Suffix number indicates total plates per cell.

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





<sup>\*\* 0.25&</sup>quot; must be added between units for spacing purposes when calculating total battery length.

<sup>\*\*\*</sup>Includes height to top of terminal plate.

<sup>&</sup>lt;sup>1</sup> Nominal Ah capacity is based on an 8 hour rate to 1.75 volts per cell @ 77°F (25°C).