

REDION™

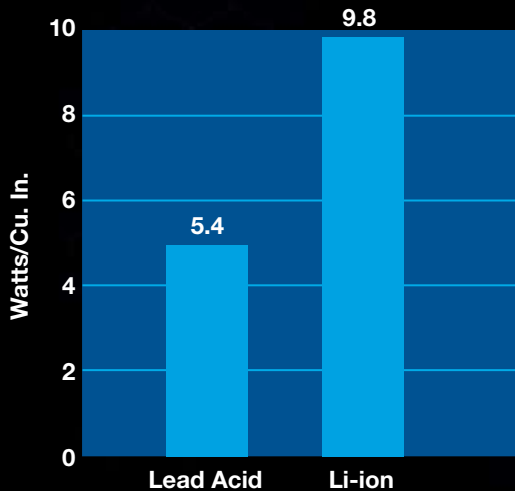
High-power, high-reliability Li-ion batteries for standby applications





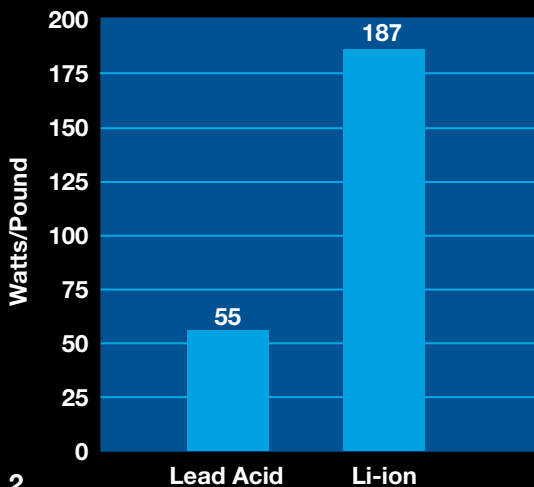
Volume Comparison

Based on a 15 minute discharge rate at 77°F



Weight Comparison

Based on a 15 minute discharge rate at 77°F



Improving on the promise of Lithium-ion power.

Compared to traditional industrial batteries, Lithium-ion (Li-ion) batteries offer greater performance and exceptional power density. With the introduction of REDION™ batteries, Li-ion power now offers space-and cost-saving advantages too.

The breakthrough redundant array technology of Modular Energy Devices™ makes it possible. Featuring electronically controlled architecture and high power density, REDION batteries are helping the telecom industry reduce cabinet sizes and extend battery system life in challenging environments.

The electronically controlled architecture inside REDION modules links multiple commercial Li-ion cells together, which protects individual cells from abuse and prevents single-cell failures from seriously affecting overall performance. Plus, a patented electronic monitoring platform combined with an innovative cell design provides a triple redundant safety platform at the cell, card and system level.

The result? With a power density up to 3X greater than traditional lead acid batteries, REDION offers a cost-effective, drop-in solution for space-restricted cable and telecom standby applications.

Unmatched power, safety and reliability

- Delivers up to 3X the power density of conventional lead acid batteries
- Offers an ideal space-saving solution for meeting recent FCC power mandates
- Redundant array design features inherently safe small Li-ion cells
- Advanced battery management electronics protect internal cells from overcharge, overdischarge, high current and high temperatures
- Individual cell failures will not result in system failure—failed cells are isolated to a small section of the pack and disconnected from functioning cells
- Equalization electronics correct for variances in individual cell performance, enabling high performance and long cycle life



Specifications

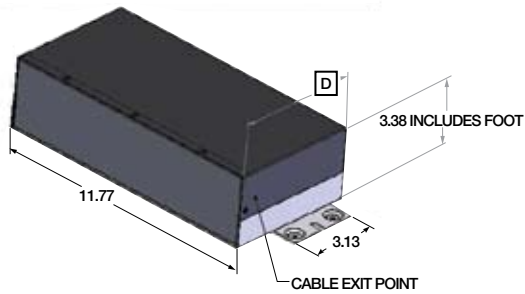
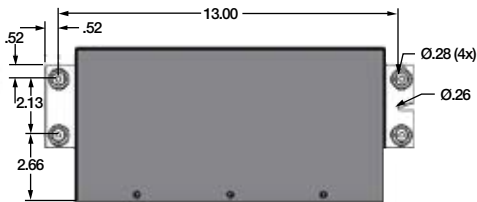
Float Voltage	52.3 +/- 0.4V for -V52 Version 56.4 +/- 0.4V for -V56 Version
Discharge Current	50A maximum
Charge Current	50A peak, pulse limited by battery for 2 hour min. charge
Terminals	6" cable with SB50 connector
Float Life	7-10 years at 25°C
Cycle Life	500 at 100% Depth, 25°C
Operating Temperature	-40°F to 131°F (-40°C to 55°C)
Storage Temperature	-67°F to 149°F (-55°C to 65°C)

Electrical Performance

-V52 Run-time to 39V (Minutes @ 25°C)					
Capacity Option Code	Rated Capacity* (Ah)	Power (Watts)			
		500	700	900	1800
C08	8	46	33	25	0
C16	16	91	65	51	25
C24	24	137	98	76	38

-V56 Run-time to 42V (Minutes @ 25°C)					
Capacity Option Code	Rated Capacity* (Ah)	Power (Watts)			
		500	700	900	1800
C08	8	49	35	27	0
C16	16	98	70	55	27
C24	24	147	105	82	41

Battery Dimensions



Capacity • Size • Weight

Capacity Option Code	Rated Capacity* (Ah)	D Case Depth (in)	D Case Depth (mm)	-V52 Module Weight (lbs)	-V52 Module Weight (kg)	-V56 Module Weight (lbs)	-V56 Module Weight (kg)
C08	8	7.5	189	14.7	6.7	15.5	7.1
C16	16	13.9	352	27.7	12.6	29.4	13.4
C24	24	20.3	514	40.7	18.5	43.3	19.7

*Capacity at 15 minute rate

Part Number Format

PNU100 ▶ **vvv** ▶ **ccc** ▶ **ff**

▶ Float Voltage “vvv”

V52 = 52 Volts
V56 = 56 Volts

▶ Capacity “ccc”

C08 = 8Ah
C16 = 16Ah
C24 = 24Ah

▶ Mounting Foot “ff”

F1 = single, bottom
Blank = None



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