



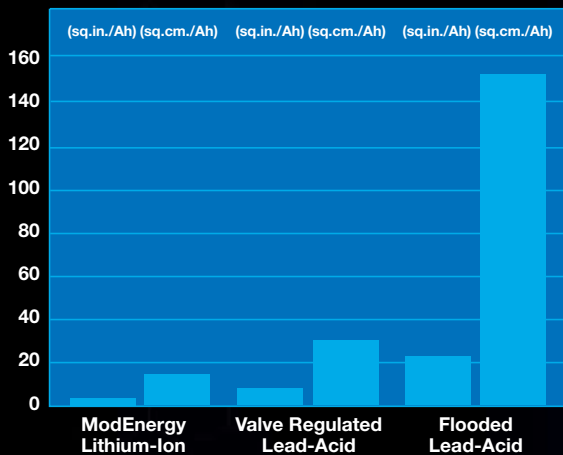
High-power, high-reliability Li-ion batteries for standby applications





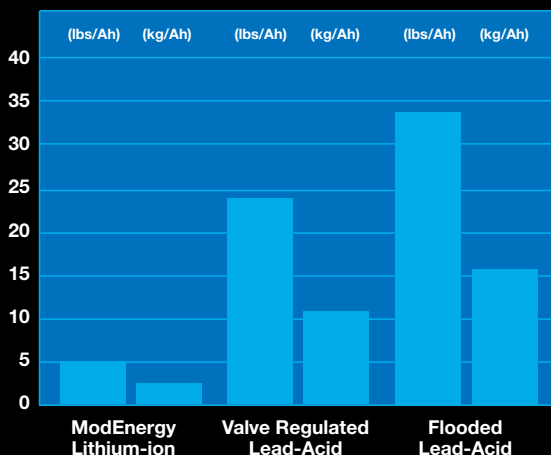
Volume Comparison

Based on a 4 hour discharge rate at 25°C



Weight Comparison

Based on a 4 hour discharge rate at 25°C



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 an energy 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 energy density of conventional lead acid batteries
- 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	28.2 +/- 0.1V for - V28 Version 52.3 +/- 0.4V for - V52 Version 56.4 +/- 0.4V for - V56 Version
Terminals	M8 - 1.25 female threaded, 96lb - in. (10.9 Nm)
Communication Interface	Threaded terminal version includes an electrically isolated RS-232 interface
Float Life	7-10 years at 25°C
Cycle Life	625 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

Discharge Current vs. Runtime at 25°C

	Runtime			
Capacity Option Code	2hr	4hr	6hr	8hr
C06	3.0	1.5	1.0	0.8
C20	10.0	5.0	3.3	2.5
C40	20.0	10.0	6.7	5.0
C60	30.0	15.0	10.0	7.5
C80	40.0	20.0	13.3	10.0



Battery Dimensions



Capacity • Size • Weight (V52 and V56)

Capacity Option Code	Rated Capacity (Ah)	D Case Depth (in) ¹	D Case Depth (mm) ¹	-V52 Module Weight (lbs)	-V52 Module Weight (kg)	-V56 Module Weight (lbs)	-V56 Module Weight (kg)
C06	6	6.7	118	9.7	4.4	10.2	4.6
C20	20	10.7	271	21.9	9.9	23.2	10.5
C40	40	20.3	514	42.1	19.1	44.7	20.3

¹For SB50 version, add 0.75" (20mm) for M8 terminal version

Capacity • Size* • Weight (V24)

Capacity Option Code	D Case Depth (in)	D Case Depth (mm)	Module Weight (lbs)	Module Weight (kg)
C20	6.46	164	13.6	6.2
C40	11.26	286	24.4	11.1
C60	16.06	408	35.2	16
C80	20.86	530	46	20.9

Capacity at 25°C, 4 hr. rate

*Depth is from back of case to farthest point on front.

All dimensions +/- 0.050"

Part Number Format

PNU200 ► vvv ► ccc

► Float Voltage "vvv" ►

V24 = 24 Volts
V52 = 52 Volts
V56 = 56 Volts

► Capacity Option Code "ccc"

C06
C20
C40
C60
C80



EnerSys
P.O. Box 14145
Reading, PA 19612-4145
USA
Tel: +1-610-208-1991
+1-800-538-3627
Fax: +1-610-372-8613

EnerSys Europe
Zurich, Switzerland

EnerSys Asia
Guangdong, China
Tel: +86-755-2689 3639

www.enersys.com

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