

QUICK REFERENCE GUIDE



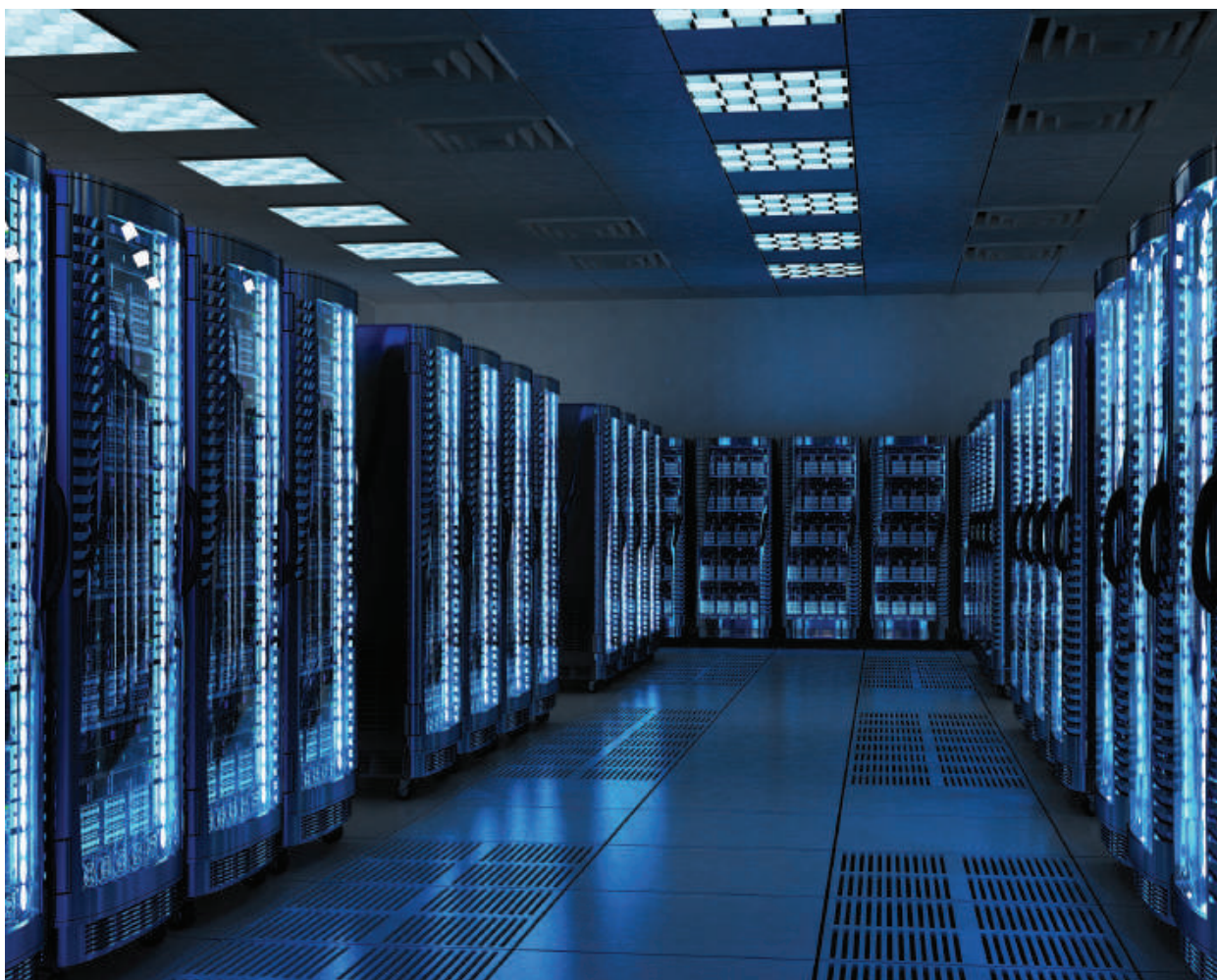
RELIABLE POWER IS ESSENTIAL,
AND C&D IS HERE TO BACK UP
YOUR CRITICAL OPERATIONS

UPS & DATACENTER

INDUSTRY LEADING EXPERIENCE AND PRODUCTS FOR UPS & DATACENTER SOLUTIONS







Mission critical applications require a higher caliber of battery and the system design to support it. C&D has been providing these solutions to end users, OEM equipment providers and system integrators as each new application emerges. The UPS battery system works in numerous places. They include computer rooms, bank and financial systems, network operations centers, internet hosting sites, industrial processing and control, and medical/emergency applications. C&D has been able to support the UPS world with a wide range of products to fit each unique application:

- 12V Pure Lead Max VRLA with a 16-year design life
- 12V Pure Lead Plus VRLA with a 12+ year design life
- 2V Pure lead VRLA cells with a 20 year design life
- High capacity VLA (Flooded) cells with a 20 year design life



UPS & DATACENTER

SPECIFICATIONS & FEATURES

		Capacity Range (8 hour rate unless noted)	Technology	Terminal Location	Design Life @ 77°F (25°C) In Float Service	Country of Origin	
PRODUCT SERIES	Pure Lead Max Series (PLM)		12V, 300 to 1000 Watts/ cell at 15 min.	Pure Lead AGM (VRLA) with Catalyst	Top Terminal and Front Access Terminal	16 Years	Mexico
	Pure Lead Plus Series (PLP)		12V, 300 to 1000 Watts/ cell at 15 min.	Pure Lead AGM (VRLA)	Top Terminal and Front Access Terminal	12+ Years	Mexico
	Liberty 1000		12V 100, 6V 200, 4V 300, & 2V 600Ah	AGM (VRLA)	Top Terminal	10 Years	Mexico
	Liberty MSE		2V, 100 to 1600Ah	Pure Lead AGM (VRLA)	Front Access Terminal, modular	20 Years	Mexico
	XTH		2V to 8V 370 to 7523 Watts/cell at 15 min.	Flooded (VLA)	Top Terminal	20 Years	USA
	XDJ		6V, 355 to 650 Watts/cell at 15 min.	Flooded (VLA)	Top Terminal	20 Years	USA

TELECOM & BROADBAND

TELECOM INDUSTRY TECHNICAL LEADER

C&D has been a leader in innovation and new technologies for phone and cable providers for more than 40 years. Partnering with multiple service providers, C&D supplies the reserve power needed to keep up with emerging technologies from home telephone to emergency 911 call centers to wireless sites, cable TV distribution and even remote communications sites. C&D has been able to support the telecom world with a wide range of products to fit each unique application and carrier including:

- 12V Pure Lead VRLA with a 12+ year design life
- 2V Pure Lead VRLA cells with a true 20 Year design life
- High capacity VLA (flooded) cells with a 20 year design life

Each C&D VRLA battery used in telecom applications is designed and tested to Telcordia's SR-4228 requirements and each C&D VLA battery is qualified to GR-63 (NEBS) to ensure safety and reliability in service.



TELECOM & BROADBAND

SPECIFICATIONS & FEATURES

		Capacity Range (8 hour rate unless noted)	Technology	Terminal Location	Design Life @ 77°F (25°C) In Float Service	Country of Origin
PRODUCT SERIES	Broadband Series (BBA)	 12V, 13.5 to 13.9Ah	AGM (VRLA)	Top Terminal	10 Years	Mexico
	Broadband Series (BBG)	 12V, 10 to 12.6Ah	GEL (VRLA)	Top Terminal	10 Years	Mexico
	msEndur II	 2V, 43 to 273Ah	Pure Lead AGM (VRLA)	Front Access Terminal, modular	20 Years	Mexico
	TEL Long Duration (TFA)	 12V, 30 to 202Ah, 6V, 180Ah,	AGM (VRLA)	Top Terminal and Front Access Terminal	10 Years	Mexico
	TEL High Temp Series	 12V, 101 to 195Ah	AGM (VRLA)	Top Terminal and Front Access Terminal only	12 Years	Mexico
	DCU	 6V, 50 to 2V, 200Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	DJ / DJU	 6V, 110, 155 & 200Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	JC	 8V, 50 to 4V, 300Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	KCT	 2V, 270 to 720Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCT / LCT-HP	 2V, 840 to 2320Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCY	 2V-8V, 290 to 2400Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCZ	 2V, 2500Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	MCT-HP	 2V, 4000Ah	Flooded (VLA)	Top Terminal	20 Years	USA

ENERGY & INFRASTRUCTURE

INDUSTRY LEADING EXPERIENCE AND PRODUCTS FOR GOVERNMENT

C&D's Switchgear and Control (SG&C) batteries offer critical backup power to switchgear, pumps, monitors, and communication systems in electric power transmission and distribution substations, electric power plants, petroleum processing plants, built-in production centers and pipeline. C&D manufactures Flooded (VLA) and Valve Regulated (VRLA) batteries that comply with the highest SG&C scores and installation demands.

- 2V Pure Lead VRLA cells with a true 20 Year service life
- 12V VRLA with a 10+ year design life
- High capacity VLA (flooded) cells with a 20 year design life

C&D's premium quality VLA batteries (DCU, KCR, LCR, LCY, and LCUN) have been designed, tested, and qualified for Nuclear Class 1-E applications. These batteries are the most desired batteries for installation of nuclear power plants. C&D has empowered about 70% of the North American nuclear power plants with dependable power solutions for over 40 years.







ENERGY & INFRASTRUCTURE

SPECIFICATIONS & FEATURES

		Capacity Range (8 hour rate unless noted)	Technology	Terminal Location	Design Life @ 77°F (25°C) In Float Service	Country of Origin
PRODUCT SERIES	Liberty AES 	2V, 124 to 1834Ah @ 20 hr rate	Lead Carbon AGM (VRLA)	Front Access Terminal, modular	20 Years	Mexico
	Advanced Energy Storage (AES) 	12V, 168 to 224Ah @20 hr rate	AGM (VRLA)	Top Terminal and Front Access Terminal	10 Years	USA & Mexico
	Switchgear & Control (SGC) 	12V, 30Ah to 125Ah	AGM (VRLA)	Top Terminal	10 Years	USA & Mexico
	DCU 	6V, 50 to 2V, 200Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	DJ/DJU 	6V, 110, 155 & 200Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	JC 	8V, 50 to 4V, 300Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	KCR 	2V, 200 to 825Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCR 	2V, 900 to 2320Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCUN 	2V, 1304 to 2318Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCY 	2V-8V, 290 to 2400Ah	Flooded (VLA)	Top Terminal	20 Years	USA

CLASS 1E NUCLEAR (CALCIUM MODELS ONLY)

For over a century, C&D Technologies, Inc. has designed and manufactured integrated battery and power systems for US Government customers. Our power storage solutions support crucial national defense infrastructure, ensuring uninterruptible backup power and smart energy solutions. Our VLA products meet the same quality stringent standards as Nuclear Class 1-E products. C&D advanced systems enable mission-critical operations worldwide; our products are proudly made in the US and supported with US-based personnel.




CLASS 1E NUCLEAR		SPECIFICATIONS & FEATURES				
		Capacity Range (8 hour rate unless noted)	Technology	Terminal Location	Design Life @ 77°F (25°C) In Float Service	Country of Origin
PRODUCT SERIES	KCR-##NUC 	2V, 200 to 825Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCR-##NUC 	2V, 900 to 2320Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCUN-##NUC 	2V, 1304 to 2318Ah	Flooded (VLA)	Top Terminal	20 Years	USA
	LCY-##NUC 	2V-8V, 290 to 2400Ah	Flooded (VLA)	Top Terminal	20 Years	USA



RENEWABLE ENERGY

Renewable energy applications operate under fluctuating or extreme temperature conditions, remote locations and the intermittent nature of hybrid, solar and wind power generation. C&D designed custom products for those duty cycles and acute running situations. C&D provides many locations throughout the world dependable power solutions within these extreme conditions. C&D manufactures Valve Regulated (VRLA) batteries that provides the high cycles even under fluctuating conditions.

- 2V Nano Carbon VRLA cells with a 20 Year design life
- 12V Nano Carbon VRLA cells with a 12-15 Year design life

RENEWABLE ENERGY		SPECIFICATIONS & FEATURES					
		Capacity Range (8 hour rate unless noted)	Technology	Terminal Location	Design Life @ 77°F (25°C) In Float Service	Country of Origin	
PRODUCT SERIES	Deep Cycle Series (DCS)		12V, 33 to 140Ah	AGM (VRLA)	Top Terminal	10 Years	USA & Mexico
	Liberty AES		2V, 124 to 1834Ah @ 20 hr rate	Lead Carbon AGM (VRLA)	Front Access Terminal, modular	20 Years	Mexico
	Advanced Energy Storage (AES)		12V, 168 to 224Ah @20 hr rate	AGM (VRLA)	Top Terminal and Front Access Terminal	10 Years	USA & Mexico



POWER YOU CAN DEPEND ON

C&D Technologies delivers world-class power solutions for mission-critical industrial applications. We have been driving industry for more than 100 years, manufacturing and supporting innovative systems for the conversion and storage of electrical power.

A global leader in energy storage solutions and services for the telecommunications, utility, uninterruptible power supply, cable, broadband and renewable energy markets, C&D is a committed to providing high quality, reliable and cost-effective power storage products and services.

With the recent acquisition of Trojan Battery Company, a leading manufacturer of deep cycle batteries for motive and stationary applications, C&D created one of the largest energy storage solution providers in North America. Together, our ability to handle all aspects of industrial energy storage, including battery installation, maintenance and recycling is greatly enhanced. A trusted power solutions partner, C&D and Trojan will continue to innovate and develop new technologies aimed at powering the future.

OUR LEGACY

The worldwide demand for power is insatiable, and C&D is committed to providing industry-leading products and services to ensure that power is available when and where it's needed. Our strong financial footing has been strengthened by KPS, a global private equity firm dedicated to investing in manufacturing and industrial companies. KPS acquired C&D in 2017 with an eye toward leveraging the company's leadership in industrial power storage. Our state-of-the-art energy storage, research, engineering and manufacturing facilities are prime for growth in the global energy solutions and services market.

The key to that strategy is building C&D's capacity to meet the growing demand for high-quality energy storage solutions worldwide. We built our reputation by providing industry-leading industrial power solutions and continue to do so through innovative engineering. Our legacy as a trusted power solutions partner is enhanced by our innovative use of advanced technologies including pure lead, nanocarbon and lithium-ion.

C&D RECYCLING PROGRAM

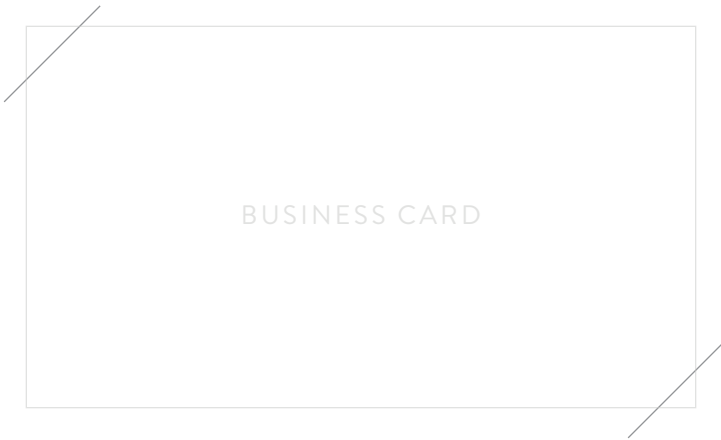
EVERY C&D TECHNOLOGIES BATTERY COMES WITH A LIFETIME RECYCLING POLICY.

Some companies claim to relieve you of the entire burden regarding lead-acid battery disposal and recycling, but under current law, no person or company involved can escape “cradle to grave” responsibility. The C&D Lead Acid Battery Collection and Recycling Program provides you with an environmentally safe, convenient and low-cost recycling option.

- Lead-acid batteries picked up at your location and dependent on volume, taken directly to an EPA certified lead recycling partners.
- No scrap dealers involved.
- Partial truck load arrangements are possible.
- Fewer waste streams at the smelter means less potential for future liability.
- A certificate of recycling is available upon request.
- All recyclable battery components including lead, plastics and acid are recycled.
- C&D is independent of the smelter operations and makes critical assessments of environmental compliance through our internal audit program.
- C&D’s recycling partners have a RCRA Part B permit and are open to customer inspections/audits upon request.
- C&D’s recycling partners are located nationwide

For more information or to schedule a recycling pick-up, please call 1-800-543-8630, Ext 309 or email usedbatteries@cdtechno.com.





www.cdtechno.com

OFFICES

C&D WORLD HEADQUARTERS

200 Precision Road
Horsham, Pennsylvania 19044 USA

C&D UNITED KINGDOM

25 Earlstrees Road
Corby, NN17 4AZ, UK

CANADA

C&D Mississauga Sales Office
6665 Millcreek Dr. Unit 3
Mississauga, Ontario L5N 5M4 Canada

MANUFACTURING

UNITED STATES

C&D Attica Manufacturing
200 W. Main Street
Attica, Indiana 47918-0279 USA

MEXICO

C&D Reynosa Manufacturing
Ave. Industrial del Norte S/N
Lote 6, Manzana 9
Reynosa, Tamaulipas

CHINA

C&D Shanghai PSD Manufacturing
No 55 Liandu Road
Spark Development Zone
FengXian District
Shanghai, China, 201419

