

Flooded Type (Vented)

- Design Life: 20 years
- For Standby Applications
- Nuclear Power Plant(Class 1E)



Features

- 20-year environmental and seismic qualification (calcium)
- Flame-retardant covers enhance battery plant safety
- Terminals accessible for measurement of individual cell voltages
- Transparent container allows visual inspection of plates
- Low-evaporation, flame-arrester vent
- Electrical testing to 100 percent capacity assures performance of every battery
- Two-point, top-suspended positive plates permit free growth without pressure on jar and cover
- Vacuum-assisted, bottom-pour, positive-grid casting assures plate quality and long life
- Soft rubber post seal minimizes stress on post
- Multi-cell design offers reduced length for optimum space utilization (200Ah or below)
- Fewer bolted connectors per battery string reduce installation and maintenance costs
- Low-maintenance, lead-calcium alloy extends watering intervals
- Snap-on, inter-cell connector covers
- Full capacity range from 25Ah to 4000Ah per single unit
- Wide range of applications; Telecom; UPS; Switchgear & control; Nuclear power plant (Class 1E) and General power plant; Railway; Oil & Gas
- EP Zone 4 racks available

Specifications

Product Series	V	Container Material	Capacity Range(Ah)	Main Applications	Terminal Type
4LCY-C	8	Polycarbonate or San	248 ~ 669	UPS, Switchgear & Control	TOP
4LCY	8	Polycarbonate or San	290 ~ 660	Telecom	TOP
CPV	2	Polypropylene	550 ~ 2600	Renewable Energy Storage	TOP
DCU/DU*	2/6	San	50 ~ 200	Telecom; UPS, Switchgear	TOP
DJ	6	PVC	110 ~ 200	Telecom; UPS, Switchgear	TOP
JC	4/8	Polycarbonate or San	50 ~ 300	Telecom; UPS, Switchgear	TOP
KCR/KAR*	2	Polycarbonate or San	200 ~ 825	UPS, Switchgear & Control	TOP
KCT/KT	2	Polycarbonate or San	270 ~ 720	Telecom	TOP
LCR/LAR*	2	Polycarbonate or San	900 ~ 2320	UPS, Switchgear & Control	TOP
LCT/LT	2	Polycarbonate or San	840 ~ 2320	Telecom	TOP
LCY	2	Polycarbonate or San	2147 ~ 2400	UPS, Switchgear & Control	TOP
LCUN	2	Thermoplastic	1304 ~ 2318	Switchgear & Control	TOP
XDJ	6	Thermoplastic	355 ~ 650 Watts/Cell	UPS	TOP
MCT	2	San / PVC / Polycarb.	3000 ~ 4000	Telecom, Switchgear	TOP
XT	2/4/8	Polycarbonate or San	108 ~ 2600	UPS, Switchgear & Control	TOP
XTHP	2/4/8	Polycarbonate or San	290 ~ 2499	UPS, Switchgear & Control	TOP

* Class 1E (Safety Grade) qualified.

C&D invests resourcers to environmental protection, starting from the initial plant design through to daily operation.

- C&D’ s factory has World Class Air & Water Treatment, which realizes zero waste discharge, and be friendly to the environment.
- Suppliers’ environmental and safety performance are always taken into consideration during all purchasing activities, and contractors operating on sites are required to adopt sound environmental policies.
- C&D continues to direct sound product life-cycle management by providing information and collection systems to its customers and sales representatives, in order to promote the environmentally beneficial recycling and re-use of its spent products.
- Domestic and international developments in environmental technology are continuously monitored, and new standards and technologies are incorporated as appropriate.

Contact us

Headquarters

C&D Technologies, Inc.
1400 Union Meeting Road
Blue Bell, Pennsylvania 19422-0858 USA

Europe

C&D Technologies (UK) Limited
Dynasty House, Premier Way, Abbey Park Industrial Estate
Romsey, Hants, S051 9AQ, UK
Mobile: (44) 0 7917724573
Office: (44) 0 1794 518173
Fax: (44) 0 1794 516556
E-mail: shosmer@cdtechno.com

C&D Technologies (Hong Kong) Ltd.

Tel: (852) 21199870
Fax: (852) 21170342
E-mail: sales@cdtechno.com.hk

C&D Tech (Singapore) Pte Ltd

Tel: (65) 68275665
Fax: (65) 63773401
E-mail: SouthAsia@cdtechno.com

Website

www.cdtechno.com
www.cdtechno.com.cn

China Service Hotline: 400-678-3721 E-mail: supportapeu@cdtechno.com

C&D reserve the right to explain and revise the technical date and infomation of products.

Middle East & Africa

C&D TECHNOLOGIES (UK) LIMITED
LOB 15-OFFICE 413
PO BOX 263116
JEBEL ALIFREE ZONE
DUBAI-UNITED ARAB EMIRATES
PH: (971) 4 8819256
FAX: (971) 4 8819257
E-mail: jingham@cdtechno.com

Shanghai C&D Battery Co., Ltd.

Addr: No.55 Liandu Road,
Spark Development Zone,
Shanghai, China
Tel: (86) 21 3711 1222
Fax: (86) 21 5750 3533
E-mail: sales@cdtechno.com.cn

Please contact with :

Power You Can
Depend On



Datacenter Application
The best power solution of C&D battery



Shanghai C&D Battery Co.,Ltd

WWW.CDTECHNO.COM
WWW.CDTECHNO.COM.CN

0213-DC-E

MRX/MRXF Series

Valve Regulated Lead Acid (VRLA)

- Design life:12 years(20°C)
- 3 years warranty
- For UPS Standby Power Applications

Features

- Eurobat Classification: Long Life
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- Patented Long Life Alloy having the lowest calcium levels in the industry-minimizing grid growth, reducing gassing, and extending battery life
- Patented UL Recognized Flame-arresting vents in each cell for safety and long life
- Designed with the same recombination, thermal runaway prevention, gassing and flame retardant characteristics of the Bellcore 4228 compliant Dynasty Telecom products
- Flame retardant polypropylene case and cover compliant with UL 94 V-2

Specifications

Model	V	Watts/Cell @ 15min	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH*		
UPS 12-100 MRX	12	100	197	132	166	173	10.7	Insert (#10-32 UNF)
UPS 12-130 MRX	12	130	197	132	166	173	11.5	Insert (#10-32 UNF)
UPS 12-150 MRX	12	150	197	132	166	173	12.4	Insert (#10-32 UNF)
UPS 12-200 MRX	12	200	229	139	200	205	17.7	Insert (#10-32 UNF)
UPS 12-220 MRX	12	220	229	139	200	205	19.0	Insert (#10-32 UNF)
UPS 12-280R MRX	12	280	273	174	201	204	25.7	Insert (1/4-20 UNC)
UPS 12-320R MRX	12	320	273	174	201	204	27.0	Insert (1/4-20 UNC)
UPS 12-370R MRX	12	370	319	173	203	205	31.5	Insert (1/4-20 UNC)
UPS 12-400 MRX	12	400	341	173	213	216	35.3	Insert (1/4-20 UNC)
UPS 12-440 MRX	12	440	341	173	213	216	36.0	Insert (1/4-20 UNC)
UPS 12-475 MRX	12	475	341	173	213	216	38.0	Insert (1/4-20 UNC)
UPS 12-490 MRX	12	490	345	173	275	278	46.6	Insert (1/4-20 UNC)
UPS 12-520 MRX	12	520	345	173	275	278	47.2	Insert (1/4-20 UNC)
UPS 12-550 MRX	12	550	345	173	275	278	48.6	Insert (1/4-20 UNC)
UPS 12-600 MRX	12	600	345	173	275	278	49.4	Insert (1/4-20 UNC)

(*TH:Total height including terminals)

True Front Access battery (high power rate)

- True Front Access threaded copper alloy inserts, for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with C&D Ohmic Ring®
- Innovative front terminal design maximizing energy density with direct connect extrusion fusionweld technology
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Thermally welded case-to-cover bond to ensure a leak-proof seal
- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of over 99%
- Flame-arresting, one-way pressure-relief vent for safety and long life
- Complies with UL 1778,924,1989 and 94 V-0. B56290-4, IEC896-2
- Multicell design for ease of installation and maintenance

Specifications

Model	V	Watts/Cell @ 15min	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
UPS 12-410 MRXF	12	410	498	108	215	231	37.1	Insert (M6)
UPS 12-615 MRXF	12	615	547	123	269	278	55.2	Insert (M8)
UPS 12-700 MRXF	12	700	547	123	310	322	64.9	Insert (M8)
UPS 12-1000 MRXF	12	1000	547	153	311	322	85.2	Insert (M8)



- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection
- Thermally welded case-to-cover bond to eliminate leakage
- Can be operated in any orientation. Upright, side or end mounting recommended
- Not restricted for air transport - Complies with IATA/ICAO Special Provisions A67
- Not restricted for surface transport-Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189
- Not restricted for water transport-Classified as non-hazardous material per IMDG Amendment 27

LBTY-2V Series

Valve Regulated Lead Acid (VRLA)

- Design life: 15 years (25°C)
- 3 years Warranty
- For Telecom, UPS, Utility Applications

Features

- High quality design insurance
- Pb-Ca Alloy for positive plate grid
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- Lower self-discharge rate (about 3% per month @20°C)
- UL-recognized component
- Flame retardant container materials, complied with materials UL 94 HB,

Specifications

Model	V	Capacity/Ah (C10,1.80V@25 °c)	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
C&D 2-200LBT	2	200	170	106	330	345	12.4	Insert (M10)
C&D 2-300LBT	2	300	170	150	330	345	17.8	Insert (M10)
C&D 2-400LBT	2	400	196	171	330	345	23.6	Insert (M10)
C&D 2-500LBT	2	500	241	171	330	345	29.3	Insert (M10)
C&D 2-600LBT	2	600	285	171	330	345	35.2	Insert (M10)
C&D 2-800LBT	2	800	383	171	330	345	47.1	Insert (M10)
C&D 2-1000LBT	2	1000	471	171	330	345	58.8	Insert (M10)
C&D 2-1200LBT	2	1200	346	310	323	336	72.0	Insert (M10)
C&D 2-1500LBT	2	1500	476	337	330	345	92.0	Insert (M10)
C&D 2-2000LBT	2	2000	476	337	330	345	117.0	Insert (M10)
C&D 2-2500LBT	2	2500	696	340	330	345	161.0	Insert (M10)
C&D 2-3000LBT	2	3000	696	340	330	345	185.0	Insert (M10)

(* TH: Total Height including cover)

ms Endur II Series

Valve Regulated Lead Acid (VRLA)

- 20 Years Design Life
- For Wireless Base Stations and Switches, Wire Line Distributed Power Applications
- 7 Years Warranty for Telecom Applications
- 3 Years Full, 12 Years Pro-rate Warranty for Switchgear and UPS Float Applications

Features

- Modular design for ease of installation and stacking flexibility
- Space saving design for the greatest amount of power in a small footprint
- Exceeds 1997 UBC Zone 4 seismic requirements
- Certified as NEBS Level 3 and compliant to Earthquake Risk Zone 4 in various system configurations
- Exceeds 2000/2003 IBC requirements for 125% g level
- Tin-plated copper alloy connectors minimize maintenance
- New Ohmic Ring for ease of maintenance readings
- Advanced microporous absorbed glass mat separators for ultra-low float current - reduces grid corrosion for a long, usable service life
- Proprietary calcium alloys to minimize positive grid corrosion and growth - maximizes battery life

Specifications

Model	Volt / Unit	C8, 1.75V, 25°C (Ah)	C10,1.80V, 20°C(Ah)	Dimensions (mm)			Terminal Type
				L / D	W	H	
AT-07P/ATL-07P	2	345/295	330/275	589	79	230	Insert
AT-09P/ATL-09P	2	480/390	460/365	589	98	230	Insert
AT-11P/ATL-11P	2	600/490	575/460	589	116	230	Insert
AT-13P/ATL-13P	2	640/515	610/485	589	116	230	Insert
AT-15P/ATL-15P	2	840/685	800/645	589	155	230	Insert
AT-17P/ATL-17P	2	920/780	875/735	589	155	230	Insert
AT-19P/ATL-19P	2	1080/880	1030/825	589	190	230	Insert
AT-21P/ATL-21P	2	1150/980	1095/920	589	190	230	Insert
AT-23P/ATL-23P	2	1320/1075	1260/1010	589	224	230	Insert
AT-25P/ATL-25P	2	1380/1175	1315/1100	589	224	230	Insert
AT-27P/ATL-27P	2	1560/1270	1490/1195	589	258	230	Insert
AT-29P/ATL-29P	2	1605/1370	1535/1285	589	258	230	Insert
AT-35P/ATL-35P	2	2040/1660	1945/1560	589	339	230	Insert
AT-39P/ATL-39P	2	2180/1855	2085/1745	589	339	230	Insert



- UL 94 V-0 Optional
- Not restricted for air transport – Complies with IATA/ICAO Special Provisions A67
- Not restricted for surface transport – Classified as non-hazardous material as related to DOT-CFR 49 Title 49 parts 171-189
- Not restricted for water transport – Classified as non-hazardous material per IMDG Amendment 27

MSE/Liberty MSE Series

Valve Regulated Lead Acid (VRLA)

- Design life:20 years (25°C)
- For UPS , Telecom, and Utility Applications

Features

- Modular design for ease of installation and stacking flexibility
- High energy density, space saving design for greatest amount of power in small footprint
- New terminal design for ease of maintenance readings
- Advanced micro-porous Absorbed Glass Mat separators for ultra-low float current reduce grid corrosion for long, usable service life
- Proprietary positive grid alloy to minimize positive grid corrosion and growth in float application and to increase cycling capability - Maximize battery life
- Robust polypropylene container and cover enhances product quality and improves strength of materials for safe operation with flammability

Specifications

Model	V	Capacity/Ah (C10,1.80V@25°C)	Dimensions(mm)			Weight/ Kg
			L	W	H	
MSE-200	2	200	378	166	114	13.0
MSE-300	2	300	378	166	114	18.0
MSE-400	2	400	378	166	146	23.0
MSE-500	2	500	378	166	210	30.0
MSE-600	2	600	378	166	210	33.5
100LF17	2	82	624	159	165	46.3
100LF19	2	92	624	159	184	51.7
100LF21	2	102	624	159	203	57.6
100LF23	2	112	624	159	222	63.0
100LF25	2	122	624	159	241	68.9
100LF27	2	132	624	159	260	74.4
100LF29	2	143	624	159	279	79.8
100LF31	2	153	624	159	299	85.7
100LF33	2	163	624	159	318	91.2

LIBERTY® 1000 Series

Valve Regulated Lead Acid (VRLA)

- 10 years life battery
- 1+9 years pro-rate warranty
- For Telecom, Switchgear Utility, UPS Applications

Features

- Patented C&D post seal design with secondary epoxy seal to increase integrity
- Two-fold vent system, Minimizes bulging, and Prevents flashback explosion from external ignition source
- Thick radial grid design, Improves current carrying capacity and performance, insure Long float life
- Immobilized electrolyte technology, Absorbent glass mat design (AGM), for Safe handling and storage
- Advanced, computer-controlled thermal cover-to-jar weld, ensure Greater reliability and consistency
- Automated, state-of-the-art, cast-on strap process, Ensures consistent, high-quality, low electrical-resistance welds

Specifications

Model	Volt / Unit	C8, 1.75V, 25°C (Ah)	15min to 1.67V(Watt/Cell)	Dimensions (mm)			Weight (Kg)	Terminal Type
				L / D	W	H		
LS 12-100	12	100	344	421	174	227	43	Insert
LS 6-200	6	200	688	421	174	227	43	Insert
LS 4-300	4	300	1030	421	174	227	43	Insert
LS 2-600*	2	600	2060	421	174	227	43	Insert

* 2 cells connected in parallel for 2-volt units.



- rating UL 94 V-0, LOI>28%
- Thermally welded case-to-cover bond to eliminate leakage
- High efficient, proprietary plate processing for high utilization of active material - results in high energy density and low float current
- Advanced formation process results in a narrow float voltage window making on-site float matching unnecessary
- Highly controlled manufacturing processes for exceptional and consistent plate quality
- Proprietary cell design and manufacturing process provides for 20 years design life in float application and documented long-lasting service life
- Industry leading warranty