



C&D Technologies, Inc.

Power You Can Depend On

WWW.CDTECHNO.COM
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About C&D Technologies

Company Profile

C&D Technologies, Inc. founded in 1906, is a leading North America technology company that produces and markets complete, integrated standby power systems. This specialized focus has established the company as a leading supplier that provides solutions and services for Switchgear & Control (Utility), Telecommunications, and Uninterruptible Power Supply (UPS) applications.

C&D Technologies continues to focus on development of the telecommunications and industrial power systems market. C&D now pays increased attention on business development in the Europe and Asia-Pacific market, whilst maintaining the market share in North America. The C&D team strives to perfect our service system, and improve the satisfaction of our customers.



Founded in 1906,
Over 100 years of experience in the battery industry
Headquarter at Blue Bell, Pennsylvania, U.S.A
R&D Center: U.S.A, and Shanghai, P.R.C



Manufacturing Base



Shanghai
China



Attica
Indiana, U.S.A



Dunlap
Tennessee, U.S.A



Leola
Pennsylvania, U.S.A



Milwaukee
Wisconsin, U.S.A



Reynosa
Mexico

Global Service

- U.S.A: Over 100 Manufacture's Representative in 50 States
- Asia-Pacific: 19 Manufacture's Representative
- Europe: 3 Manufacture's Representative
- Latin America: 16 Manufacture's Representative
- Middle East: 7 Manufacture's Representative
- Distributors: Over 400 Distributors worldwide
- World class distribution and customer support
- The No.1 market share of U.S.A. in 2008, over 39%



C&D "First"

- From glass to plastic containers
- Lead Calcium technology
- 3rd cell electrode testing
- Suspended positive plates
- Round Cell™ 40year design life battery

About SC&D

- SC&D JV factory founded in 1996, over \$50 million investment
- Spark Dev Zone in Mar.2007. 72,000m² for gross area,32,000m² for construction area
- Five production lines for VRLA, production capacity up to 2 million units per year
- WOFE in 2012 by C&D Technologies



Quality

Inherit of C&D high quality control standard, SC&D can ensure the high quality of the product, and provide quality guarantee for customer.

Environmental Protection

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

Now Shanghai C&D has the World Class Air & Water Treatment, which can realize "Zero" waste discharge, and be friendly to environmentally.

High Rate Max XT Series

Valve Regulated Lead Acid (VRLA)

- Design life:12 years
- 3 years warranty
- For UPS Standby Power Applications

**HIGH
RATE
MAX^{XT}**



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
- 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

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. BS6290-4, IEC896-2
- Multicell design for ease of installation and maintenance

**TRUE
FRONT
ACCESS**



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)

Product Series

MPS Series

Valve Regulated Lead Acid (VRLA)

- Design life: 5 years(≤26Ah)
10 years(>26Ah)
- For UPS, Telecom, Utility Applications

Features

- Robust plate for extended life
- Flame-arresting one-way pressure-relief vent for safety and long life
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- UL-recognized component
- Multicell design for cost effective installation and maintenance
- Can be used in upright, side, or end mounting orientation

MULTI PURPOSE SERIES



- Not restricted for air transport Complies with IATA/ICAO Special Provision 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
- Computer designed lead, low Calcium alloy grid for minimal gassing and ease of recycling

Specifications

Model	V	Capacity/Ah (C20,1.75V@25 °c)	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
MPS 12-7A	12	7	151	65	94	100	2.2	Faston Tab 187/250
MPS 12-9A	12	9	151	65	94	100	2.6	Faston Tab 187/250
MPS 12-12A	12	12	151	98	95	101	3.6	Faston Tab 187/250
MPS 12-18A	12	18	181	77	166	166	5.0	Insert (M5)
MPS 12-26A	12	26	166	175	125	125	8.1	Insert (M5)
MPS 12-40A	12	40	198	166	171	171	13.2	Insert (M6)
MPS 12-54	12	54	228	139	201	225	17.0	L-type (M6)
MPS 12-65R	12	65	273	174	201	224	21.0	L-type (M6)
MPS 12-76R	12	76	273	174	201	224	23.3	L-type (M6)
MPS 12-88R	12	88	319	173	203	230	25.5	L-type (M6)
MPS 12-100R	12	100	319	173	203	230	29.0	L-type (M6)
MPS 12-114	12	114	341	173	213	241	32.5	L-type (M6)
MPS 12-127A	12	127	407	177	225	225	35.0	Insert (M8)
MPS 12-158A	12	158	483	170	241	241	44.5	Insert (M8)
MPS 12-211A	12	211	522	239	218	223	60.0	Insert (M8)
MPS 12-242A	12	242	521	269	203	208	67.0	Insert (M8)

(*TH:Total height including terminals)

DNTY Series

Valve Regulated Lead Acid (VRLA)

- Design life:12 years(models above 12-100 DNT)
- For UPS Applications

Features

- Lead Calcium Alloy Grids - Lowest Level of Calcium among manufacturers, which reduces grid corrosion
- Radial grid design provides the most efficient power pathway to transfer power from the active material to the terminal
- Patented Long Life Alloy having the lowest calcium levels in the industry -minimizing grid growth, reducing gassing, and extending battery life
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance



- Proprietary Fixed Orifice Pasting Technology - More consistent pasting process where paste is applied to both sides of plate to reduce risk of shorts
- 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
- Can be used in upright, side, or end mounting orientation

Specifications

Model	V	Watts/Cell @ 15min	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
C&D 12-25A DNT	12	28	151	65	94	100	2.2	Faston Tab 250
C&D 12-65A DNT	12	72	181	77	166	166	5.6	Insert (M5)
C&D 12-100 DNT	12	100	197	132	166	173	10.7	Insert (#10-32 UNF)
C&D 12-130 DNT	12	130	197	132	166	173	11.5	Insert (#10-32 UNF)
C&D 12-150 DNT	12	150	197	132	166	173	12.4	Insert (#10-32 UNF)
C&D 12-200 DNT	12	200	229	139	200	205	17.7	Insert (#10-32 UNF)
C&D 12-220 DNT	12	220	229	139	200	205	19.0	Insert (#10-32 UNF)
C&D 12-280 DNT	12	280	273	174	201	204	25.7	Insert (1/4-20 UNC)
C&D 12-320 DNT	12	320	273	174	201	204	27.0	Insert (1/4-20 UNC)
C&D 12-370 DNT	12	370	319	173	203	205	31.5	Insert (1/4-20 UNC)
C&D 12-400 DNT	12	400	341	173	213	216	35.3	Insert (1/4-20 UNC)
C&D 12-440 DNT	12	440	341	173	213	216	36.0	Insert (1/4-20 UNC)
C&D 12-475 DNT	12	475	341	173	213	216	38.0	Insert (1/4-20 UNC)
C&D 12-490 DNT	12	490	345	173	275	278	46.6	Insert (1/4-20 UNC)
C&D 12-520 DNT	12	520	345	173	275	278	47.2	Insert (1/4-20 UNC)
C&D 12-550 DNT	12	550	345	173	275	278	48.6	Insert (1/4-20 UNC)
C&D 12-600 DNT	12	600	345	173	275	278	49.4	Insert (1/4-20 UNC)
C&D 12-675A DNT	12	692	522	239	218	223	65.0	Insert (M8)
C&D 12-775A DNT	12	785	522	239	218	223	75.5	Insert (M8)
C&D 6-630A DNT	6	630	260	171	220	244	28.8	Insert (M8)

(*TH:Total height including terminals)

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,

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

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)

TEL-TFA Series

Valve Regulated Lead Acid (VRLA)

- Design life: 10 years
- For Telecom, Utility Applications

TRUE FRONT ACCESS



Features

- Long life alloy and over 10+ years design life (at 25°C)
- Tested and qualified by Telecordia to meet SR-4228 requirements
- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with C&D Ohmic Ring®
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology
- Thermally welded case to cover bond to ensure a leak-proof seal
- Flame-retardant polypropylene case and cover compliant with UL94 V-2

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of over 99%
- Flame-arresting, one-way pressure-relief vent for safety and long life
- UL recognized components
- Complies with UL 1778, 924, 1989 and 94 V-2, BS6290-4, IEC60896
- Can be used in upside, side or end mounting orientation
- Multicell design for ease of installation and maintenance
- 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 parts171-189
- Not restricted for water transport -Classified as non-hazardous material per IMDG Amendment 27

Specifications

Model	V	Capacity/Ah (C10,1.75V@25°C)	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
TEL 12-100 TFA	12	100	410	106	267	284	32.8	Insert (M8)
TEL 12-105 TFA	12	104	511	109	215	231	33.0	Insert (M6)
TEL 12-150 TFA	12	150	559	125	269	279	47.3	Insert (M8)
TEL 12-165 TFA	12	166	559	125	269	279	49.0	Insert (M8)
TEL 12-185 TFA	12	184	559	125	310	322	56.7	Insert (M8)
TEL 12-200 TFA	12	196	559	125	310	322	60.2	Insert (M8)

Product Series

TEL-FG Series

Valve Regulated Lead Acid (VRLA)

- Design life: 13 years
- For Telecom Standby Power Applications

TRUE FRONT ACCESS



Features

- Long life alloy and 13 years design life
- Standard gas collection system for telecom. sealed cabinet installation
- Tested and qualified by Telecordia to meet SR-4228 requirements
- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with C&D Ohmic Ring®
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology
- 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, BS6290-4, IEC60896
- UL recognized components
- Can be used in upside, side or end mounting orientation
- Multicell design for ease of installation and maintenance
- 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

Specifications

Model	V	Capacity/Ah (C8,1.75V@25°C)	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
TEL 12-105FNSG	12	100	410	107	267	289	33.0	Insert (M8)
TEL 12-115FNG	12	104	511	110	215	237	33.5	Insert (M6)
TEL 12-155FG	12	148	559	126	269	285	48.3	Insert (M8)
TEL 12-170FG	12	162	559	126	269	285	49.5	Insert (M8)
TEL 12-190FG	12	183	559	126	310	328	57.7	Insert (M8)
TEL 12-210FG	12	195	559	126	310	328	61.2	Insert (M8)

TEL-FGC Series

Valve Regulated Lead Acid (VRLA)

- For Unstable Grid, Renewable Energy Applications

TRUE FRONT ACCESS



Features

Long life cycle service design:

- Proven C&D DCS plate technology
- Maximum cycle life for deep cycle & hybrid applications
- High charge acceptance for rapid recharge

True front access design:

- True direct connect terminal for reliability
- C&D Ohmic Ring for accurate testing
- Standard true front access gas collection system for sealed cabinet installation
- Connection versatility

The best electric property:

- Superior output due to direct terminal connection
- Low internal resistance

Compliant to major global specifications:

- British Standard BS 6290: Part 4:1997
- IEC 60896-21/22
- Telecordia SR-4228
- Eurobat Guide Classification: long life
- Bellcore GR-63-CORE & GR-1089-Core
- UL94 V-0
- Non-hazardous, not restricted for any transportation mode (air, water or land)

Specifications

Model	V	Capacity/Ah (C8,1.75V@25°C)	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
TEL 12-105 FNSGC	12	88	410	104	267	289	33.0	Insert (M8)
TEL 12-115 FNGC	12	91	511	108	215	236	34.4	Insert (M6)
TEL 12-170 FGC	12	139	559	123	269	285	50.9	Insert (M8)
TEL 12-210 FGC	12	169	559	123	310	328	60.6	Insert (M8)

GEL Series

Valve Regulated Lead Acid (VRLA)- GEL Type

- Design life: 18 years (2V) for floating application
12 years (12V) for floating application
- For UPS, Telecom, Utility, Renewable Energy Applications

Features

- Gel electrolyte technology for better wide temperature range performance, prevention from thermal runaway, insure reliability and safety
- Proprietary Pb-Ca Alloy – minimizing grid growth, reducing gassing, and extending battery life
- Flame arresting one-way pressure vents for safety and improved life
- Gas recombination efficiency of up to 99% for freedom from electrolyte maintenance
- Good deep cycle performance
- Lower self-discharge rate (Less than 3% per month)
- Not restricted for air transport – Complies with IATA/ICAO Special Provision 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



Specifications

Model	V	Capacity/Ah (C10, 1.80V, 20°C)	Dimensions(mm)				Weight/ Kg	Terminal Type (Bolt)
			L	W	H	TH		
C&D 2-100 GEL	2	133	172	102	206	227	8.0	Insert (M8)
C&D 2-150 GEL	2	178	173	110	330	366	14.0	Insert (M8)
C&D 2-200 GEL	2	222	171	150	330	366	17.5	Insert (M8)
C&D 2-300 GEL	2	311	211	176	330	366	24.5	Insert (M8)
C&D 2-400 GEL	2	400	242	172	330	366	29.0	Insert (M8)
C&D 2-500 GEL	2	533	302	175	330	366	37.0	Insert (M8)
C&D 2-600 GEL	2	666	410	175	330	367	46.0	Insert (M8)
C&D 2-800 GEL	2	888	475	174	330	366	62.0	Insert (M8)
C&D 2-1000 GEL	2	1066	475	174	330	366	76.0	Insert (M8)
C&D 2-1200 GEL	2	1332	401	350	341	383	96.0	Insert (M8)
C&D 2-1500 GEL	2	1776	490	350	343	383	126.5	Insert (M8)
C&D 2-2000 GEL	2	2221	710	352	340	383	171.0	Insert (M8)
C&D 2-2500 GEL	2	2665	710	352	340	383	193.0	Insert (M8)
C&D 12-20 GEL	12	23	166	175	125	125	8.2	Insert (M8)
C&D 12-40 GEL	12	49	229	138	210	216	18.0	Insert (M8)
C&D 12-50 GEL	12	50	260	169	211	216	20.5	Insert (M8)
C&D 12-65 GEL	12	67	260	169	211	216	23.5	Insert (M8)
C&D 12-90 GEL	12	90	328	172	215	222	30.0	Insert (M8)
C&D 12-100 GEL	12	106	407	177	225	225	35.0	Insert (M8)
C&D 12-120 GEL	12	119	341	173	281	288	41.5	Insert (M8)
C&D 12-150 GEL	12	160	530	209	214	219	53.0	Insert (M8)
C&D 12-180 GEL	12	177	522	239	218	223	60.0	Insert (M8)
C&D 12-200 GEL	12	204	521	269	203	208	67.0	Insert (M8)
C&D 12-230 GEL	12	231	520	268	220	225	74.0	Insert (M8)

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
- PVC container and cover, Provides excellent water vapor retention, preventing dry out, Prevents oxygen infiltration, High-impact resistance
- Through-the-partition inter-cell connection, Shortens current paths, Increases performance
- Copper-to-copper connections, Minimize resistance drop, especially at high rates, Reduce need for retorquing connections
- Measurable quality and outstanding performance, 100 percent of cells tested for conductance voltage and capacity, Tested in accordance with Bellcore TR-NWT-000766 specifications, 100 percent of cells tested to 95 percent capacity at the 8-hour rate to 1.75 Vpc
- Comply to SR4228
- UL94 V-0 FR



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.

Product Series

HRM Series

Valve Regulated Lead Acid (VRLA)

- 10 years Design life
- 3 years warranty
- For UPS Standby Power Applications

Features

- 10 year design life @ 25°C
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- 3 Year Warranty (refer Dynasty warranty card, 41-9026)
- 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
- Flame retardant polypropylene case and cover compliant with UL 94 V-2

**HIGH
RATE
MAX**



- Designed with the same recombination, thermal runaway prevention, gassing and flame retardant characteristics of the SR4228 compliant Dynasty Telecom products
- 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 used in upright, side, or end mounting orientation

Specifications

Model	Volt / Unit	Watt/Cell @15min	Dimensions (mm)				Weight (Kg)	Terminal Type
			L / D	W	H	TH		
UPS12-100MR	12	100	166	131	162	174	10.0	L-Type
UPS12-150MR	12	150	197	132	166	173	12.4	Insert(#10-32UNF)
UPS12-210MR	12	210	229	139	200	205	18.0	Insert(#10-32UNF)
UPS12-300MR	12	300	261	173	200	204	26.5	Insert(1/4-20UNC)
UPS12-350MR	12	350	306	173	202	205	30.5	Insert(1/4-20UNC)
UPS12-400MR	12	400	341	173	213	216	34.4	Insert(1/4-20UNC)
UPS12-490MR	12	490	341	173	213	216	38.0	Insert(1/4-20UNC)
UPS12-490MR	12	490	345	173	275	278	45.0	Insert(1/4-20UNC)
UPS12-540MR	12	540	345	173	275	278	45.0	Insert(1/4-20UNC)
UPS12-615MR	12	615	559*	126	273	283	53.0	Front Access(1/4-20UNC)
UPS12-700MR	12	700	559*	126	310	320	60.0	Front Access(1/4-20UNC)
UPS6-620MR	6	620	321	177	224	227	33.0	Insert(1/4-20UNC)

(*Length including front access terminal)

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

THE m-s endur II
20+ Years
The True Long-Life Battery



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

- Robust polypropylene container and cover enhances product quality and improves strength of materials for safe operation with flammability rating UL94V-0, LOI>28%
- Highly efficient, proprietary plate processing for high utilization of active material - results in high energy density
- 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 documented long-lasting service life
- Comply to SR4228

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

TEL Series

Valve Regulated Lead Acid (VRLA)

- 10 years life battery
- 3 Years pro-rate warranty
- For Telecom Power Applications

**LONG
DURATION
SERIES**



Features

- Flame-arresting one-way pressure-relief vent for safety and long life
- 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 99% plus
- Thick positive plate design for maximum service float life 10 year design life

- Complies with UL1778, 924, 1989 and 94 V-0
- UL-recognized component
- Can be used in upright, side, or end mounting orientation
- Low-profile terminals with threaded copper alloy inserts for reduced height, reduced maintenance and increased safety
- Front Access threaded copper alloy inserts on TEL 12-105 F/FS
- Multi-cell design for ease of installation and maintenance
- Comply to SR4228

Specifications

Model	Volt / Unit	C8, 1.75V, 25°C (Ah)	C10, 1.80V, 20°C (Ah)	Dimensions (mm)			Weight (Kg)	Terminal Type
				L / D	W	H		
TEL 12-30*(SLC)	12	30	29.1	197	132	173	12.4	Insert(#10-32UNF)
TEL 12-45*(SLC)	12	46	44.4	228	139	205	18.4	Insert(#10-32UNF)
TEL 12-70	12	69	67.2	261	173	204	25.3	Insert(1/4-20UNC)
TEL 12-80*(SLC)	12	79	77.5	306	173	205	30.2	Insert(1/4-20UNC)
TEL 12-90	12	88	85.5	341	173	216	33.8	Insert(1/4-20UNC)
TEL 12-105F/FS	12	100	98.1	572/558	126	229	38.5	Front Insert(1/4-20UNC)
TEL 12-125	12	126	123	345	173	278	46.4	Insert(1/4-20UNC)
TEL6-180	6	176	171	321	177	227	33.8	Insert(1/4-20UNC)

* (SLC) battery includes cable assembly

The True Front Access VRLA

- 13 years life battery
- For Telecom Power Applications

**TEL-TRUE
FRONT
ACCESS**



Features

- Long life alloy and design Telecordia certified exceeding 13 years service life
- Tested and qualified by Telecordia to meet SR-4228 requirements
- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with Ohmic Ring™
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology

- 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 99% plus
- Flame-arresting, one-way pressure-relief vent for safety and long life
- Complies with UL1778, 924, 1989 and 94 V-0. B56290PT4, IEC-896-2
- UL-recognized component
- Multi-cell design for ease of installation and maintenance

Specifications

Model	V	Capacity/Ah (C8, 1.75EPV, 25°C)	Capacity/Ah (C10, 1.80EPV, 20°C)	Dimensions(mm)			Weight/ Kg	Terminal Type (Bolt)
				L/D	W	H		
TEL12-105FNSG	12	104	102	410	106	287	32.8	Insert(M8)
TEL12-115FNG	12	108	106	511	110	235	36.0	Insert(M6)
TEL12-145FW	12	145	143	430	163	257	48.0	Insert(M6)
TEL12-155F/FG	12	155	154	559	126	277/283	47.0	Insert(M8)
TEL12-160FW	12	160	153	463	176	257	55.0	Insert(1/4-20UNC)
TEL12-160F	12	157	151	559	126	283	53.0	Insert(1/4-20UNC)
TEL12-170F/FG	12	169	169	559	126	277/283	51.0	Insert(M8)
TEL12-180F	12	181	174	559	126	320	60.0	Insert(1/4-20UNC)
TEL12-190F/FG	12	190	190	559	126	320/326	57.0	Insert(M8)
TEL12-210F/FG	12	202	199	559	126	320/326	60.0	Insert(M8)

Product Series

BBG/DCS Series

Valve Regulated Lead Acid (VRLA)

- For Broadband Standby Power Applications (BBG)
- For Deep Cycle Mobility Applications (DCS)
- For Renewable Energy, Unstable Network Applications



Specifications

Model	Volt/Unit	C20, 1.75V @25°C	Dimensions(mm)				Weight/ Kg	Terminal Type
			L / D	W	H	TH		
BBG-165RT	12	86	318	173	202	230	29	L-Type
BBG-180RT	12	94	341	173	213	216	30	Insert(1/4-20UNC)
BBG-210RT	12	106	341	173	213	216	33	Insert(1/4-20UNC)
DCS-33IT/HIT	12	33	197/207	132	166	173	12	Insert(1/4-20UNC)
DCS-50IT	12	50	229	139	200	205	18	Insert(#10-32UNF)
DCS-75IT/HIT	12	75	261/273	169	200	204	25	Insert(#10-32UNF)
DCS-88HIT	12	88	318	173	202	205	30	Insert(1/4-20UNC)
DCS-100HIT	12	100	341	173	213	216	31	Insert(1/4-20UNC)

OPzS Series

Tubular Flooded

- Design Life : 20 years (2V), 18 years (6V/12V)
- For UPS, Telecom, Solar, Control and Monitoring System Applications



Features

- Low Maintenance
- Quick and simple acid level control
- Economical water consumption
- Appropriate dimensions and weight
- The lowest and constant maintenance current
- The positive armored plate is of a tubular type. Such construction prevents escaping of an active substance during the operation and ensures a long life time
- Excellent cyclic performance
- Translucent plastic containers made of styrenacrylnitril (SAN), which is extraordinary resistant to chemical influences and mechanical damage
- Manufactured according to DIN 40736, EN 60896 and IEC 896-1 regulations
- Transparent containers allows visual inspection of electrolyte level
- Well sealed cell plug prevents leakage of any sulphuric acid vapours but lets through hydrogen and oxygen

Specifications

Model	Volt / Unit	Capacity/Ah (C8,1.75EPV,20°C)	IEC Capacity/Ah (C10,1.80EPV,20°C)	Dimensions (mm)			Weight/ Kg (Wet)	Terminal Type
				L / D	W	H		
OPzS 12-50	12	48	50	272	205	392	39	Insert(M10)
OPzS 12-100	12	96	100	272	205	392	50	Insert(M10)
OPzS 12-150	12	144	150	380	205	392	69	Insert(M10)
OPzS 6-200	6	192	200	272	205	392	47	Insert(M10)
OPzS 6-250	6	240	260	380	205	392	61	Insert(M10)
OPzS 6-300	6	288	310	380	205	392	68	Insert(M10)
OPzS 2-100	2	104	110	103	206	420	13	Insert(M10)
OPzS 2-150	2	152	150	103	206	420	16	Insert(M10)
OPzS 2-200	2	200	210	103	206	420	18	Insert(M10)
OPzS 2-250	2	248	260	124	206	420	22	Insert(M10)
OPzS 2-300	2	304	310	145	206	536	26	Insert(M10)
OPzS 2-350	2	368	380	124	206	536	29	Insert(M10)
OPzS 2-420	2	440	450	145	206	536	34	Insert(M10)
OPzS 2-490	2	512	530	166	206	536	39	Insert(M10)
OPzS 2-600	2	616	640	145	206	711	50	Insert(M10)
OPzS 2-800	2	824	850	210	191	711	65	Insert(M10)
OPzS 2-1000	2	1024	1070	210	233	711	80	Insert(M10)
OPzS 2-1200	2	1232	1280	210	275	711	93	Insert(M10)
OPzS 2-1500	2	1584	1610	210	275	861	119	Insert(M10)
OPzS 2-2000	2	2112	2140	212	397	837	160	Insert(M10)
OPzS 2-2500	2	2640	2680	212	487	837	200	Insert(M10)
OPzS 2-3000	2	3184	3210	212	576	837	240	Insert(M10)

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.

OPzV Series

Tubular GEL

- Design Life: 15 years for floating application
- For Standby & Cyclic Applications

Features

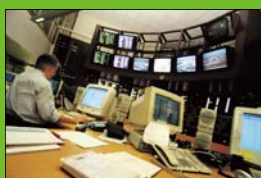
- Tubular Positive Plate – special grid construction, pressure cast from antimony free alloy, with highly porous gauntlets that retain the active material
- Pasted negative plate – service lives consistent with the positive plates
- Separators – extremely high porosity and low internal resistance
- Electrolyte – Gel structure



- Containers and lids – made of plastic (ABS) material. Also available in ABS flame retardant material as an option (according to IEC 707 FV0)
- Cells are normally installed in an upright position on steel stands
- One way relief valve – opens at low pressure and is fitted with a flame arrestor device

Specifications

Model	V	Capacity/Ah (C10,1.80V@20°C)	Dimensions(mm)				Weight/ Kg	Terminal Type
			L	W	H	TH		
C&D 2-200T GEL	2	200	103	206	354	380	19	Insert(M10)
C&D 2-250T GEL	2	250	124	206	354	380	23	Insert(M10)
C&D 2-300T GEL	2	300	145	206	354	380	28	Insert(M10)
C&D 2-350T GEL	2	350	124	206	471	496	31	Insert(M10)
C&D 2-420T GEL	2	420	145	206	471	496	36	Insert(M10)
C&D 2-490T GEL	2	490	166	206	471	496	41	Insert(M10)
C&D 2-600T GEL	2	600	145	206	643	668	49	Insert(M10)
C&D 2-800T GEL	2	800	210	191	664	669	65	Insert(M10)
C&D 2-1000T GEL	2	1000	210	233	646	671	80	Insert(M10)
C&D 2-1200T GEL	2	1200	210	275	665	670	93	Insert(M10)
C&D 2-1500T GEL	2	1500	210	275	796	821	115	Insert(M10)
C&D 2-2000T GEL	2	2000	214	399	771	796	155	Insert(M10)
C&D 2-2500T GEL	2	2500	214	487	769	794	200	Insert(M10)
C&D 2-3000T GEL	2	3000	214	576	771	796	235	Insert(M10)



Date Center-UPS



Telecom-Switching Cen.



Energy-Power Plants



Infrastructure-Public



Emergency Lighting



Base Stations BTS



Nuclear



Transportation



Security Systems



Cable Television



Renewable Energy



Oil & Gas

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