

VALVE REGULATED LEAD-ACID

B A T T E R I E S



Description

Since 1994, the DD battery system has set the standard in modular VRLA. The DDS battery system incorporates the same reliable DD cell but provides many important advantages and improvements over other systems. Cells are encased in dedicated protective steel cases that maintain constant, uniform compression for the life of the cell. The easy-to-assemble frame system provides total flexibility for system configuration and allows fast, simple installation in even the most difficult locations. The DDS cell is still the largest available ampere-hour capacity battery on the market and now has even more advantages than ever.

Features

INDEPENDENCE

- VRLA Recombinant Technology - Low maintenance - No watering required
- Patented Slide-Lock™ Post Seal - Allows for naturally occurring plate growth without stressing the jar-to-cover seal or the post seal
- Bead Mesh jar-to-cover Heat Seal - No glues to fail
- Completely front accessible
- Container and cover made from Flame Retardant polypropylene (UL94 V-0/L.O.I. 28%)
- Non-Spillable classification (UN 2800)
- Approved for Air Transportation (IATA provision A67)

DDS SERIES

- Absorbed Glass Mat (AGM) VRLA technology - Higher capacity in a smaller footprint
- Calcium alloy grids - Lower float current than antimony, reduces possibility of thermal runaway, environmentally friendly
- Excellent high rate performance
- Outstanding initial recombination efficiency (>95%)
- No scheduled equalization required
- Superior Thermal Management

CONFIGURATIONS

- Horizontal ("cross-stack") electrical configuration with end/side termination
- Certified to 1997 UBC Zone 4 to six high (48V)
- Cells in permanent containers with 1 or 2 cells per container
- Standard 24V and 48V configurations for the telecommunications industry, other configurations are available
- Front termination standard, end/side termination available
- (Internally) Paralleled systems up to 8000 Ah

UL Recognized - File Number MH15494 • All data subject to change without notice

DDS

120Ah - 2000Ah

APPLICATIONS:

COMMUNICATIONS

WIRELESS

MICROWAVE

CENTRAL OFFICE

UPS

SWITCHGEAR

Specifications

PLATES:

Calcium Alloy Grids

CONTAINER AND COVER MADE FROM:

Flame Retardant Polypropylene
(UL94 V-0/L.O.I. 28%)

SEPARATOR:

Absorbed Glass Mat

CONNECTORS:

Lead-plated copper with 316 Stainless
Steel hardware

ELECTROLYTE:

1.300 S.G. at 77°F (25°C)

SAFETY VENT:

Self-resealing with flame arrestor

FLOAT VOLTAGE SETTING:

2.23-2.27 VPC at 77°F (25°C)

2.25 VPC Recommended

SELF DISCHARGE:

0.5%-1.0% per week maximum
at 77°F (25°C)

POSTS:

Copper core, Slide-Lock™ Post Seal
Up to 15 plates - 1 post per polarity
17 to 27 plates - 2 posts per polarity
29 plates and above - 3 posts per polarity

DDS CELL SPECIFICATIONS

Cell	Plate	Length	Width	Height	Weight	Cells/Sleeve
	DDS 40					
DDS40-07	7	5.92	12.43	6.63	48.0	2
DDS40-09	9	7.42	12.43	6.63	59.0	2
DDS40-11	11	8.92	12.43	6.63	71.0	2
DDS40-13	13	10.42	12.43	6.63	82.0	2
DDS40-15	15	11.92	12.43	6.63	93.0	2
	DDS 85					
DDS85-07	7	5.92	22.196	6.63	90.0	2
DDS85-09	9	7.42	22.196	6.63	113.0	2
DDS85-11	11	8.92	22.196	6.63	135.0	2
DDS85-13	13	10.42	22.196	6.63	125.0	2
DDS85-15	15	11.92	22.196	6.63	180.0	2
DDS85-17	17	6.92	22.196	6.63	107.0	1
DDS85-19	19	7.67	22.196	6.63	118.0	1
DDS85-21	21	8.42	22.196	6.63	129.0	1
DDS85-23	23	9.17	22.196	6.63	140.0	1
DDS85-25	25	9.92	22.196	6.63	151.0	1
DDS85-27	27	10.67	22.196	6.63	163.0	1
DDS85-29	29	11.42	22.196	6.63	175.0	1
DDS85-31	31	12.17	22.196	6.63	185.0	1
DDS85-33	33	12.92	22.196	6.63	195.0	1
	DDS 125					
DDS125-11	11	8.92	23.211	8.857	191.0	2
DDS125-17	17	6.92	23.211	8.857	151.0	1
DDS125-19	19	7.67	23.211	8.857	166.0	1
DDS125-21	21	8.42	23.211	8.857	182.0	1
DDS125-23	23	9.17	23.211	8.857	198.0	1
DDS125-25	25	9.92	23.211	8.857	214.0	1
DDS125-27	27	10.67	23.211	8.857	229.0	1
DDS125-29	29	11.42	23.211	8.857	246.0	1
DDS125-31	31	12.17	23.211	8.857	262.0	1
DDS125-33	33	12.92	23.211	8.857	277.0	1

DDS SYSTEM SPECIFICATIONS 24 and 48 VOLT CONFIGURATIONS

Cell	Nominal AH	CONFIGURATION		SYSTEM				Cells Per Sleeve	"D", in. See Note 1
		cells wide	cells high	Width, in.	Depth, in.	Height, in.	Weight, lb.		
DDS40-7	120	4	6	16.05	18.0	60.16	731	2	2
DDS40-7	120	4	3	16.05	18.0	34.47	395	2	2
DDS40-7	120	6	4	21.96	18.0	43.03	726	2	2
DDS40-7	120	6	2	21.96	18.0	25.90	397	2	2
DDS40-9	160	4	6	19.05	18.0	60.16	884	2	2
DDS40-9	160	4	3	19.05	18.0	34.47	474	2	2
DDS40-9	160	6	4	26.46	18.0	43.03	881	2	2
DDS40-9	160	6	2	26.46	18.0	25.90	479	2	2
DDS40-11	200	4	6	22.05	18.0	60.16	1032	2	2
DDS40-11	200	4	3	22.05	18.0	34.47	550	2	2
DDS40-11	200	6	4	30.96	18.0	43.03	1032	2	2
DDS40-11	200	6	2	30.96	18.0	25.90	558	2	2
DDS40-13	240	4	6	25.05	18.0	60.16	1183	2	2
DDS40-13	240	4	3	25.05	18.0	34.47	628	2	2
DDS40-13	240	6	4	35.46	18.0	43.03	1185	2	2
DDS40-13	240	6	2	35.46	18.0	25.90	638	2	2
DDS40-15	280	4	6	28.05	18.0	60.16	1331	2	2
DDS40-15	280	4	3	28.05	18.0	34.47	705	2	2
DDS40-15	280	6	4	39.96	18.0	43.03	1335	2	2
DDS40-15	280	6	2	39.96	18.0	25.90	718	2	2
DDS85-7	255	4	6	16.05	27.75	60.16	1241	2	2
DDS85-7	255	4	3	16.05	27.75	34.47	653	2	2
DDS85-7	255	6	4	21.96	27.75	43.03	1237	2	2
DDS85-7	255	6	2	21.96	27.75	25.90	657	2	2
DDS85-9	340	4	6	19.05	27.75	60.16	1537	2	2
DDS85-9	340	4	3	19.05	27.75	34.47	804	2	2
DDS85-9	340	6	4	26.46	27.75	43.03	1536	2	2
DDS85-9	340	6	2	26.46	27.75	25.90	811	2	2
DDS85-11	425	4	6	22.05	27.75	60.16	1824	2	2
DDS85-11	425	4	3	22.05	27.75	34.47	950	2	2
DDS85-11	425	6	4	30.96	27.75	43.03	1826	2	2
DDS85-11	425	6	2	30.96	27.75	25.90	961	2	2
DDS85-13	510	4	6	25.05	27.75	60.16	2101	2	2
DDS85-13	510	4	3	25.05	27.75	34.47	1092	2	2
DDS85-13	510	6	4	35.46	27.75	43.03	2106	2	2
DDS85-13	510	6	2	35.46	27.75	25.90	1105	2	2
DDS85-15	595	4	6	28.05	27.75	60.16	2380	2	2
DDS85-15	595	4	3	28.05	27.75	34.47	1235	2	2
DDS85-15	595	6	4	39.96	27.75	43.03	2388	2	2
DDS85-15	595	6	2	39.96	27.75	25.90	1251	2	2
DDS85-17	680	4	6	31.88	27.75	60.16	2827	1	2
DDS85-17	680	4	3	31.88	27.75	34.47	1463	1	2
DDS85-17	680	6	4	45.72	27.75	43.03	2839	1	2
DDS85-17	680	6	2	45.72	27.75	25.90	1484	1	2
DDS85-19	765	4	6	34.88	27.75	60.16	3106	1	2
DDS85-19	765	4	3	34.88	27.75	34.47	1606	1	2
DDS85-19	765	6	4	50.22	27.75	43.03	3122	1	2
DDS85-19	765	6	2	50.22	27.75	25.90	1629	1	2
DDS85-21	850	4	6	37.88	27.75	60.16	3386	1	2
DDS85-21	850	4	3	37.88	27.75	34.47	1748	1	2
DDS85-21	850	6	4	54.72	27.75	43.03	3404	1	2
DDS85-21	850	6	2	54.72	27.75	25.90	1775	1	2
DDS85-23	935	4	6	40.88	27.75	60.16	3667	1	2
DDS85-23	935	4	3	40.88	27.75	34.47	1892	1	2
DDS85-23	935	6	4	59.22	27.75	43.03	3689	1	2
DDS85-23	935	6	2	59.22	27.75	25.90	1922	1	2

All data subject to change without notice.

Note 1: When using zero spacing between stacks, total system width = (system width) x (no. of stacks)
When non-zero spacing is used, a minimum of "D" inches must be allowed between stacks.

DDS SYSTEM SPECIFICATIONS 24 and 48 VOLT CONFIGURATIONS

Cell	Nominal AH	CONFIGURATION		SYSTEM				Cells Per Sleeve	"D", in. See Note 1
		cells wide	cells high	Width, in.	Depth, in.	Height, in.	Weight, lb.		
DDS85-25	1020	4	6	43.88	27.75	60.16	3946	1	2
DDS85-25	1020	4	3	43.88	27.75	34.47	2035	1	2
DDS85-25	1020	6	4	65.22	27.75	43.03	3984	1	2
DDS85-25	1020	6	2	65.22	27.75	25.90	2076	1	2
DDS85-27	1105	4	6	46.88	27.75	60.16	4228	1	2
DDS85-27	1105	4	3	46.88	27.75	34.47	2179	1	2
DDS85-27	1105	6	4	69.72	27.75	43.03	4269	1	2
DDS85-27	1105	6	2	69.72	27.75	25.90	2223	1	2
DDS85-29	1190	4	6	49.88	27.75	60.16	4547	1	2
DDS85-29	1190	4	3	49.88	27.75	34.47	2341	1	2
DDS85-29	1190	6	4	74.22	27.75	43.03	4591	1	2
DDS85-29	1190	6	2	74.22	27.75	25.90	2388	1	2
DDS85-31	1275	4	6	52.88	27.75	60.16	4807	1	2
DDS85-31	1275	4	3	52.88	27.75	34.47	2474	1	2
DDS85-31	1275	6	4	78.72	27.75	43.03	4854	1	2
DDS85-31	1275	6	2	78.72	27.75	25.90	2524	1	2
DDS85-33	1360	4	6	55.88	27.75	60.16	5077	1	2
DDS85-33	1360	4	3	55.88	27.75	34.47	2612	1	2
DDS85-33	1360	6	4	83.22	27.75	43.03	5126	1	2
DDS85-33	1360	6	2	83.22	27.75	25.90	2666	1	2
DDS125-11	625	4	6	22.05	28.75	74.41	2481	2	2
DDS125-11	625	4	3	22.05	28.75	41.59	1280	2	2
DDS125-11	625	6	4	30.96	28.75	52.53	2480	2	2
DDS125-11	625	6	2	30.96	28.75	30.65	1289	2	2
DDS125-17	1000	4	6	31.88	28.75	74.41	3856	1	2
DDS125-17	1000	4	3	31.88	28.75	41.59	1979	1	2
DDS125-17	1000	6	4	45.72	28.75	52.53	3865	1	2
DDS125-17	1000	6	2	45.72	28.75	30.65	1998	1	2
DDS125-19	1125	4	6	34.88	28.75	74.41	4244	1	2
DDS125-19	1125	4	3	34.88	28.75	41.59	2176	1	2
DDS125-19	1125	6	4	50.22	28.75	52.53	4256	1	2
DDS125-19	1125	6	2	50.22	28.75	30.65	2198	1	2
DDS125-21	1250	4	6	37.88	28.75	74.41	4633	1	2
DDS125-21	1250	4	3	37.88	28.75	41.59	2374	1	2
DDS125-21	1250	6	4	54.72	28.75	52.53	4649	1	2
DDS125-21	1250	6	2	54.72	28.75	30.65	2399	1	2
DDS125-23	1375	4	6	40.88	28.75	74.41	5021	1	2.75
DDS125-23	1375	4	3	40.88	28.75	41.59	2570	1	2
DDS125-23	1375	6	4	60.72	28.75	52.53	5052	1	2
DDS125-23	1375	6	2	60.72	28.75	30.65	2608	1	2
DDS125-25	1500	4	6	43.88	28.75	74.41	5410	1	4.5
DDS125-25	1500	4	3	43.88	28.75	41.59	2768	1	2
DDS125-25	1500	6	4	65.22	28.75	52.53	5445	1	2
DDS125-25	1500	6	2	65.22	28.75	30.65	2809	1	2
DDS125-27	1625	4	6	46.88	28.75	74.41	5798	1	5.75
DDS125-27	1625	4	3	46.88	28.75	41.59	2965	1	2
DDS125-27	1625	6	4	69.72	28.75	52.53	5835	1	2
DDS125-27	1625	6	2	69.72	28.75	30.65	3008	1	2
DDS125-29	1750	4	6	49.88	28.75	74.41	6228	1	7.5
DDS125-29	1750	4	3	49.88	28.75	41.59	3183	1	2
DDS125-29	1750	6	4	74.22	28.75	52.53	6259	1	2
DDS125-29	1750	6	2	74.22	28.75	30.65	3230	1	2
DDS125-31	1875	4	6	52.88	28.75	74.41	6615	1	9.5
DDS125-31	1875	4	3	52.88	28.75	41.59	3380	1	2
DDS125-31	1875	6	4	78.72	28.75	52.53	6659	1	2
DDS125-31	1875	6	2	78.72	28.75	30.65	3429	1	2
DDS125-33	2000	4	6	55.88	28.75	74.41	7005	1	10.25
DDS125-33	2000	4	3	55.88	28.75	41.59	3578	1	2
DDS125-33	2000	6	4	83.22	28.75	52.53	7052	1	2
DDS125-33	2000	6	2	83.22	28.75	30.65	3630	1	2

All data subject to change without notice.

AVERAGE CELL PERFORMANCE DATA* (Discharge Rates in Amperes**)

TYPE	NOM. AH	24 HR	12 HR	10 HR	8 HR	6 HR	5 HR	4 HR	3 HR	2 HR	1 HR	15 MIN	1 MIN
TO 1.75 END VOLTS PER CELL													
DDS40-07	120	5.2	10.5	12.6	15.0	19.0	22.2	26.1	32.7	43.5	68.0	128	176
DDS40-09	160	7.0	14.0	16.8	20.0	26.0	29.6	34.8	43.6	58.0	91.0	170	234
DDS40-11	200	9.0	17.5	21.0	26.0	32.0	37.0	43.5	54.5	72.5	114.0	213	293
DDS40-13	240	11.0	21.0	25.2	30.0	38.0	44.4	52.2	65.4	87.0	137.0	255	351
DDS40-15	280	12.0	24.5	29.4	35.0	44.0	51.8	60.9	76.3	101.5	160.0	298	410
DDS85-07	255	11.4	22.8	27.3	31.9	39.6	45.0	51.9	63.6	84.0	126.0	234	276
DDS85-09	340	15.2	30.4	36.4	42.5	52.8	60.0	69.2	84.8	112.0	168.0	312	368
DDS85-11	425	19.0	38.0	45.5	53.1	66.0	75.0	86.5	106.0	140.0	210.0	390	460
DDS85-13	510	23.0	45.6	54.6	63.7	79.0	90.0	103.8	127.0	168.0	252.0	468	552
DDS85-15	595	27.0	53.2	63.7	74.4	92.0	105.0	121.1	148.0	196.0	294.0	546	644
DDS85-17	680	30.0	60.8	72.8	85.0	106.0	120.0	138.4	170.0	224.0	336.0	624	736
DDS85-19	765	34.0	68.4	81.9	95.6	119.0	135.0	155.7	191.0	252.0	378.0	702	828
DDS85-21	850	38.0	76.0	91.0	106.2	132.0	150.0	173.0	212.0	280.0	420.0	780	920
DDS85-23	935	42.0	83.6	100.1	116.8	145.0	165.0	190.3	233.0	308.0	462.0	858	1012
DDS85-25	1020	46.0	91.2	109.2	127.5	159.0	180.0	207.6	254.0	336.0	504.0	936	1104
DDS85-27	1105	49.0	98.8	118.3	138.1	172.0	195.0	224.9	276.0	364.0	546.0	1014	1196
DDS85-29	1190	53.0	106.4	127.4	148.7	185.0	210.0	242.2	297.0	392.0	588.0	1092	1288
DDS85-31	1275	57.0	114.0	135.5	159.3	198.0	225.0	259.5	318.0	426.0	630.0	1170	1380
DDS85-33	1360	61.0	121.6	145.6	170.0	211.0	240.0	276.8	339.0	448.0	672.0	1248	1472
DDS125-11	625	27.0	53.0	63.0	77.0	96.0	110.0	130.0	160.0	210.0	315.0	510	600
DDS125-17	1000	43.0	86.0	101.0	122.0	154.0	177.0	208.0	255.0	336.0	504.0	816	960
DDS125-19	1125	49.0	96.0	114.0	138.0	173.0	199.0	234.0	287.0	378.0	567.0	918	1080
DDS125-21	1250	54.0	107.0	126.0	153.0	193.0	221.0	260.0	319.0	420.0	630.0	1020	1200
DDS125-23	1375	60.0	118.0	139.0	168.0	212.0	243.0	286.0	351.0	462.0	693.0	1122	1320
DDS125-25	1500	65.0	128.0	152.0	184.0	231.0	265.0	312.0	383.0	504.0	756.0	1224	1440
DDS125-27	1625	70.0	139.0	164.0	199.0	250.0	287.0	338.0	415.0	546.0	819.0	1326	1560
DDS125-29	1750	76.0	150.0	177.0	214.0	270.0	309.0	364.0	447.0	588.0	882.0	1428	1680
DDS125-31	1875	81.0	160.0	189.0	230.0	289.0	331.0	390.0	479.0	630.0	945.0	1530	1800
DDS125-33	2000	87.0	171.0	202.0	245.0	308.0	354.0	416.0	510.0	672.0	1008.0	1632	1920
TO 1.81 END VOLTS PER CELL													
DDS40-07	120	5.1	10.2	12.3	14.5	18.0	21.8	25.5	31.5	40.2	59.0	113	146
DDS40-09	160	6.8	13.6	16.4	19.0	25.0	29.0	34.0	42.0	53.6	79.0	150	194
DDS40-11	200	8.5	17.0	20.5	25.0	31.0	36.3	42.5	52.5	67.0	99.0	188	243
DDS40-13	240	10.2	20.4	24.6	29.0	37.0	43.6	51.0	63.0	80.4	119.0	225	292
DDS40-15	280	11.9	23.8	28.7	34.0	43.0	50.8	59.5	73.5	93.8	139.0	263	340
DDS85-07	255	11.2	22.5	27.0	31.8	39.0	44.0	51.0	60.0	78.0	113.0	180	237
DDS85-09	340	15.0	30.0	36.0	42.4	52.0	58.0	68.0	80.0	104.0	150.0	240	316
DDS85-11	425	18.7	37.5	45.0	53.0	65.0	73.0	85.0	100.0	129.5	188.0	300	395
DDS85-13	510	22.5	45.0	54.0	63.6	78.0	87.6	102.0	120.0	155.4	225.0	396	474
DDS85-15	595	26.2	52.5	63.0	74.2	91.0	102.2	119.0	140.0	181.3	263.0	462	553
DDS85-17	680	30.0	60.0	72.0	84.8	105.0	116.8	136.0	160.0	207.2	300.0	528	632
DDS85-19	765	33.7	67.5	81.0	95.4	118.0	131.4	153.0	180.0	233.1	338.0	594	711
DDS85-21	850	37.5	75.0	90.0	106.0	131.0	146.0	170.0	200.0	259.0	375.0	660	790
DDS85-23	935	41.2	82.5	99.0	116.6	144.0	160.6	187.0	220.0	284.9	413.0	726	869
DDS85-25	1020	45.0	90.0	108.0	127.2	157.0	175.2	204.0	240.0	310.8	450.0	792	948
DDS85-27	1105	48.7	97.5	117.0	137.8	170.0	189.8	221.0	260.0	336.7	488.0	858	1027
DDS85-29	1190	52.5	105.0	126.0	148.4	183.0	204.4	238.0	280.0	362.2	525.0	924	1106
DDS85-31	1275	56.2	112.5	135.0	159.0	196.0	219.0	255.0	300.0	388.5	562.5	990	1185
DDS85-33	1360	60.0	120.0	144.0	169.6	209.0	233.6	272.0	320.0	414.4	600.0	1056	1264
DDS125-11	625	27.0	52.6	62.0	75.0	94.0	107.0	125.0	152.0	197.0	285.0	433	525
DDS125-17	1000	42.0	84.0	99.0	120.0	150.0	171.0	200.0	243.0	315.0	456.0	692	840
DDS125-19	1125	43.0	95.0	112.0	135.0	169.0	193.0	225.0	273.0	354.0	513.0	779	945
DDS125-21	1250	48.0	105.0	124.0	150.0	187.0	214.0	250.0	304.0	393.0	570.0	865	1050
DDS125-23	1375	54.0	116.0	137.0	165.0	206.0	235.0	275.0	334.0	432.0	627.0	952	1155
DDS125-25	1500	64.0	127.0	149.0	180.0	225.0	257.0	300.0	364.0	472.0	684.0	1038	1260
DDS125-27	1625	70.0	137.0	161.0	195.0	244.0	278.0	325.0	395.0	511.0	741.0	1125	1365
DDS125-29	1750	75.0	148.0	174.0	210.0	262.0	300.0	350.0	425.0	550.0	798.0	1211	1470
DDS125-31	1875	81.0	158.0	186.0	225.0	281.0	321.0	375.0	456.0	590.0	855.0	1298	1575
DDS125-33	2000	86.0	169.0	199.0	240.0	300.0	342.0	400.0	486.0	629.0	912.0	1384	1680

*Ampere values listed represented 100% of the cell's capacity. Initial capacity shall be a minimum of 90% of these values per IEEE std. 1188.

**At 77°F (25°C) includes intercell connector drop.

All data subject to change without notice.

AVERAGE CELL PERFORMANCE DATA* (Discharge Rates in Amperes**)

TYPE	NOM. AH	24 HR	12 HR	10 HR	8 HR	6 HR	5 HR	4 HR	3 HR	2 HR	1 HR	15 MIN	1 MIN
TO 1.84 END VOLTS PER CELL													
DDS40-07	120	5.0	10.0	12.0	14.0	17.5	21.0	25.0	30.0	40.0	62	104	134
DDS40-09	160	7.0	14.0	16.0	18.5	24.0	28.0	33.0	40.0	53.0	82	138	179
DDS40-11	200	9.0	17.0	20.0	24.0	30.0	35.0	41.0	50.0	66.2	103	173	224
DDS40-13	240	10.5	21.0	24.0	28.0	36.0	42.0	49.5	60.0	79.5	123	207	268
DDS40-15	280	12.2	24.5	28.0	33.0	42.0	49.0	57.7	70.0	92.7	143	241	313
DDS85-07	255	10.8	21.6	25.8	30.6	37.8	42.0	49.0	58.0	73.0	108	183	210
DDS85-09	340	14.4	28.8	34.4	40.8	50.4	56.0	65.0	77.0	98.0	144	244	280
DDS85-11	425	18.0	36.0	43.0	51.0	63.0	70.0	81.0	96.0	122.0	180	305	350
DDS85-13	510	21.5	43.0	51.0	61.0	75.0	84.0	97.0	115.0	147.0	216	366	420
DDS85-15	595	25.5	51.0	60.0	71.0	88.0	98.0	113.0	134.0	171.0	252	427	490
DDS85-17	680	29.0	58.0	68.0	82.0	100.0	112.0	129.0	153.0	196.0	288	488	560
DDS85-19	765	32.5	65.0	77.0	92.0	113.0	126.0	145.0	173.0	220.0	324	549	630
DDS85-21	850	36.0	72.0	85.0	102.0	125.0	140.0	161.0	192.0	245.0	360	610	700
DDS85-23	935	40.0	80.0	94.0	112.0	138.0	154.0	177.0	211.0	269.0	396	671	770
DDS85-25	1020	43.5	87.0	102.0	122.0	150.0	169.0	193.0	230.0	294.0	432	732	840
DDS85-27	1105	47.0	94.0	111.0	133.0	163.0	183.0	209.0	249.0	318.0	468	793	910
DDS85-29	1190	50.4	101.0	119.0	143.0	175.0	196.0	225.0	269.0	343.0	504	854	980
DDS85-31	1275	54.0	108.0	128.0	153.0	188.0	210.0	241.0	288.0	367.0	540	915	1050
DDS85-33	1360	58.0	115.0	136.0	163.0	200.0	224.0	258.0	307.0	392.0	576	976	1120
DDS125-11	625	26.0	52.0	61.0	74.0	92.0	104.0	121.0	145.0	184.0	260	383	450
DDS125-17	1000	42.0	84.0	98.0	118.0	147.0	167.0	193.0	231.0	294.0	416	612	720
DDS125-19	1125	48.0	94.0	111.0	133.0	165.0	187.0	217.0	260.0	331.0	468	689	810
DDS125-21	1250	53.0	104.0	123.0	148.0	184.0	208.0	241.0	289.0	368.0	520	765	900
DDS125-23	1375	58.0	115.0	135.0	163.0	202.0	229.0	265.0	318.0	405.0	572	842	990
DDS125-25	1500	63.0	125.0	147.0	178.0	220.0	250.0	289.0	347.0	441.0	624	918	1080
DDS125-27	1625	69.0	136.0	160.0	192.0	239.0	271.0	313.0	376.0	478.0	676	995	1170
DDS125-29	1750	74.0	146.0	172.0	207.0	257.0	291.0	337.0	405.0	515.0	728	1071	1260
DDS125-31	1875	79.0	157.0	184.0	222.0	275.0	312.0	362.0	434.0	552.0	780	1148	1350
DDS125-33	2000	85.0	167.0	197.0	237.0	294.0	333.0	386.0	463.0	589.0	832	1224	1440
TO 1.88 END VOLTS PER CELL													
DDS40-07	120	4.7	9.5	11.0	13.5	17.0	20.0	23.0	28.0	36.0	54	96	120
DDS40-09	160	6.0	13.0	15.0	18.0	23.0	26.0	30.0	37.0	48.0	72	128	160
DDS40-11	200	8.0	16.0	19.0	23.0	29.0	33.0	38.0	46.0	60.0	90	160	200
DDS40-13	240	9.7	19.5	22.5	27.0	34.0	39.0	45.0	55.0	72.0	108	192	240
DDS40-15	280	11.3	22.7	26.2	31.5	40.0	45.5	52.5	65.0	84.0	126	224	280
DDS85-07	255	10.0	20.0	24.0	29.0	35.0	40.0	46.0	54.0	68.0	98	160	180
DDS85-09	340	14.0	27.0	32.0	39.0	47.0	54.0	61.0	72.0	90.0	130	216	240
DDS85-11	425	17.0	34.0	40.0	49.0	59.0	67.0	76.0	90.0	113.0	163	270	300
DDS85-13	510	20.0	41.0	49.0	58.0	71.0	80.0	91.0	108.0	136.0	195	324	360
DDS85-15	595	24.0	48.0	57.0	68.0	83.0	93.0	106.0	126.0	158.0	228	378	420
DDS85-17	680	27.0	55.0	65.0	78.0	95.0	106.0	122.0	144.0	181.0	260	432	480
DDS85-19	765	31.0	62.0	73.0	87.0	107.0	120.0	137.0	162.0	204.0	293	486	540
DDS85-21	850	34.0	69.0	81.0	97.0	119.0	133.0	152.0	180.0	226.0	325	540	600
DDS85-23	935	38.0	76.0	89.0	107.0	131.0	146.0	167.0	198.0	249.0	358	594	660
DDS85-25	1020	41.0	83.0	97.0	116.0	142.0	160.0	182.0	216.0	271.0	390	648	720
DDS85-27	1105	44.0	89.0	105.0	126.0	154.0	173.0	198.0	234.0	294.0	423	702	780
DDS85-29	1190	48.0	97.0	113.0	136.0	166.0	186.0	213.0	252.0	316.0	455	756	840
DDS85-31	1275	51.0	103.0	121.0	145.0	178.0	199.0	228.0	270.0	339.0	487	810	900
DDS85-33	1360	55.0	110.0	130.0	155.0	190.0	213.0	243.0	288.0	362.0	520	864	960
DDS125-11	625	25.0	50.0	58.0	70.0	87.0	98.0	114.0	136.0	172.0	239	325	350
DDS125-17	1000	41.0	79.0	93.0	112.0	139.0	157.0	182.0	218.0	276.0	382	520	560
DDS125-19	1125	46.0	89.0	105.0	126.0	156.0	177.0	204.0	245.0	310.0	430	585	630
DDS125-21	1250	51.0	99.0	117.0	140.0	173.0	196.0	227.0	272.0	344.0	478	650	700
DDS125-23	1375	56.0	109.0	128.0	154.0	191.0	216.0	250.0	299.0	379.0	526	715	770
DDS125-25	1500	61.0	119.0	140.0	168.0	208.0	236.0	272.0	326.0	413.0	574	780	840
DDS125-27	1625	66.0	129.0	152.0	182.0	225.0	255.0	295.0	353.0	448.0	621	845	910
DDS125-29	1750	71.0	139.0	163.0	196.0	243.0	275.0	318.0	381.0	482.0	669	910	980
DDS125-31	1875	76.0	149.0	175.0	210.0	260.0	294.0	341.0	408.0	517.0	717	975	1050
DDS125-33	2000	81.0	159.0	187.0	224.0	277.0	314.0	363.0	435.0	551.0	765	1040	1120

*Ampere values listed represented 100% of the cell's capacity. Initial capacity shall be a minimum of 90% of these values per IEEE std. 1188.

**At 77°F (25°C) includes intercell connector drop.

All data subject to change without notice.

AVERAGE CELL PERFORMANCE DATA* (Discharge Rates in kW/Cell**)

TYPE	NOM. AH	5 MIN	6 MIN	7 MIN	8 MIN	9 MIN	10 MIN	11 MIN	14 MIN	15 MIN	16 MIN	20 MIN	25 MIN	30 MIN	45 MIN	60 MIN
TO 1.67 END VOLTS PER CELL																
DDS40-07	120	0.302	0.294	0.289	0.281	0.273	0.265	0.259	0.235	0.221	0.211	0.202	0.186	0.173	0.135	0.122
DDS40-09	160	0.403	0.392	0.385	0.374	0.364	0.353	0.346	0.313	0.295	0.281	0.270	0.248	0.230	0.180	0.162
DDS40-11	200	0.504	0.491	0.482	0.468	0.455	0.441	0.432	0.391	0.369	0.351	0.338	0.311	0.288	0.225	0.202
DDS40-13	240	0.605	0.589	0.578	0.562	0.545	0.529	0.518	0.470	0.443	0.421	0.405	0.373	0.346	0.270	0.243
DDS40-15	280	0.706	0.687	0.674	0.655	0.636	0.617	0.605	0.548	0.517	0.491	0.473	0.435	0.403	0.315	0.284
DDS85-07	255	0.516	0.505	0.494	0.484	0.473	0.462	0.454	0.432	0.410	0.410	0.383	0.351	0.322	0.259	0.221
DDS85-09	340	0.688	0.674	0.659	0.645	0.630	0.616	0.605	0.578	0.547	0.547	0.511	0.468	0.429	0.346	0.295
DDS85-11	425	0.860	0.842	0.824	0.806	0.788	0.770	0.756	0.720	0.702	0.684	0.639	0.585	0.536	0.432	0.369
DDS85-13	510	1.031	1.010	0.988	0.967	0.945	0.923	0.907	0.864	0.842	0.821	0.767	0.702	0.643	0.518	0.443
DDS85-15	595	1.203	1.178	1.153	1.128	1.103	1.077	1.058	1.008	0.983	0.958	0.895	0.819	0.750	0.605	0.517
DDS85-17	680	1.375	1.346	1.318	1.289	1.260	1.231	1.210	1.152	1.123	1.094	1.022	0.936	0.857	0.691	0.590
DDS85-19	765	1.547	1.515	1.482	1.450	1.418	1.385	1.361	1.296	1.264	1.231	1.150	1.053	0.964	0.778	0.664
DDS85-21	850	1.719	1.683	1.647	1.611	1.575	1.539	1.512	1.440	1.404	1.368	1.278	1.170	1.071	0.864	0.738
DDS85-23	935	1.891	1.851	1.812	1.772	1.733	1.693	1.663	1.584	1.544	1.505	1.406	1.287	1.178	0.950	0.812
DDS85-25	1020	2.063	2.020	1.976	1.933	1.890	1.847	1.814	1.728	1.685	1.642	1.534	1.404	1.285	1.037	0.886
DDS85-27	1105	2.235	2.188	2.141	2.094	2.048	2.001	1.966	1.872	1.825	1.778	1.661	1.521	1.392	1.123	0.959
DDS85-29	1190	2.407	2.356	2.306	2.255	2.205	2.155	2.117	2.106	1.966	1.915	1.789	1.638	1.499	1.210	1.033
DDS85-31	1275	2.578	2.524	2.470	2.416	2.362	2.308	2.268	2.160	2.106	2.052	1.917	1.755	1.606	1.296	1.107
DDS85-33	1360	2.750	2.693	2.635	2.578	2.520	2.462	2.419	2.304	2.246	2.189	2.045	1.872	1.714	1.382	1.181
DDS125-11	625	1.174	1.149	1.126	1.103	1.082	1.062	1.042	0.985	0.967	0.949	0.882	0.819	0.774	0.670	0.571
DDS125-17	1000	1.879	1.839	1.802	1.766	1.731	1.699	1.667	1.577	1.548	1.518	1.412	1.310	1.238	1.072	0.914
DDS125-19	1125	2.114	2.069	2.027	1.987	1.948	1.911	1.876	1.774	1.741	1.708	1.588	1.474	1.393	1.206	1.028
DDS125-21	1250	2.349	2.299	2.252	2.207	2.164	2.124	2.084	1.971	1.935	1.898	1.765	1.638	1.548	1.341	1.143
DDS125-23	1375	2.583	2.529	2.478	2.428	2.381	2.336	2.296	2.169	2.128	2.088	1.941	1.801	1.702	1.475	1.257
DDS125-25	1500	2.818	2.759	2.703	2.649	2.597	2.548	2.501	2.366	2.322	2.278	2.118	1.965	1.857	1.609	1.371
DDS125-27	1625	3.053	2.989	2.928	2.870	2.814	2.761	2.710	2.563	2.515	2.468	2.294	2.129	2.012	1.743	1.485
DDS125-29	1750	3.288	3.219	3.153	3.090	3.030	2.973	2.918	2.760	2.709	2.657	2.471	2.293	2.167	1.877	1.600
DDS125-31	1875	3.523	3.449	3.379	3.311	3.247	3.186	3.127	2.957	2.902	2.847	2.647	2.457	2.322	2.011	1.714
DDS125-33	2000	3.758	3.679	3.604	3.532	3.463	3.398	3.335	3.155	3.096	3.037	2.824	2.620	2.476	2.145	1.828

*kW values listed represent 100% of the initial capacity.

**At 77°F (25°C) includes intercell connector drop.

All data subject to change without notice.

Short Circuit Current

TYPE	AMPS
DDS40-07	1056
DDS40-09	1414
DDS40-11	1764
DDS40-13	2121
DDS40-15	2471

TYPE	AMPS
DDS85-07	1928
DDS85-09	2570
DDS85-11	3323
DDS85-13	3987
DDS85-15	4652
DDS85-17	5316
DDS85-19	5981
DDS85-21	6646
DDS85-23	7310
DDS85-25	7975
DDS85-27	8639
DDS85-29	9304
DDS85-31	9968
DDS85-33	10633

TYPE	AMPS
DDS125-11	3408
DDS125-17	5453
DDS125-19	6134
DDS125-21	6816
DDS125-23	7498
DDS125-25	8179
DDS125-27	8861
DDS125-29	9542
DDS125-31	10224
DDS125-33	10906

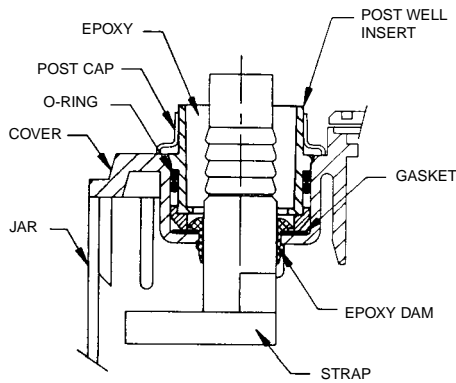
AVERAGE CELL PERFORMANCE DATA* (Discharge Rates in kW/Cell)**

TYPE	NOM. AH	5 MIN	6 MIN	7 MIN	8 MIN	9 MIN	10 MIN	11 MIN	14 MIN	15 MIN	16 MIN	20 MIN	25 MIN	30 MIN	45 MIN	60 MIN
TO 1.75 END VOLTS PER CELL																
DDS40-07	120	0.275	0.267	0.262	0.254	0.248	0.240	0.232	0.213	0.205	0.202	0.189	0.181	0.159	0.127	0.113
DDS40-09	160	0.367	0.356	0.349	0.338	0.331	0.320	0.310	0.284	0.274	0.270	0.252	0.241	0.212	0.169	0.151
DDS40-11	200	0.459	0.446	0.437	0.423	0.414	0.400	0.387	0.356	0.342	0.338	0.315	0.302	0.266	0.212	0.189
DDS40-13	240	0.551	0.535	0.524	0.508	0.497	0.481	0.464	0.427	0.410	0.405	0.378	0.362	0.319	0.254	0.227
DDS40-15	280	0.643	0.642	0.611	0.592	0.580	0.561	0.542	0.498	0.479	0.473	0.441	0.422	0.372	0.296	0.265
DDS85-07	255	0.443	0.435	0.427	0.419	0.410	0.405	0.400	0.378	0.370	0.365	0.340	0.311	0.289	0.240	0.208
DDS85-09	340	0.590	0.580	0.569	0.558	0.547	0.540	0.533	0.504	0.494	0.486	0.454	0.414	0.386	0.320	0.278
DDS85-11	425	0.738	0.725	0.711	0.698	0.684	0.675	0.666	0.630	0.617	0.608	0.567	0.518	0.482	0.400	0.347
DDS85-13	510	0.886	0.869	0.853	0.837	0.821	0.810	0.799	0.756	0.740	0.729	0.680	0.621	0.578	0.481	0.416
DDS85-15	595	1.033	1.014	0.995	0.977	0.958	0.945	0.932	0.882	0.863	0.851	0.794	0.725	0.674	0.561	0.485
DDS85-17	680	1.181	1.159	1.138	1.116	1.094	1.080	1.066	1.008	0.986	0.972	0.907	0.828	0.770	0.641	0.554
DDS85-19	765	1.328	1.304	1.280	1.256	1.231	1.215	1.199	1.134	1.110	1.094	1.021	0.932	0.867	0.721	0.624
DDS85-21	850	1.476	1.449	1.422	1.395	1.368	1.350	1.332	1.260	1.233	1.215	1.134	1.035	0.963	0.801	0.693
DDS85-23	935	1.624	1.594	1.564	1.535	1.505	1.485	1.465	1.386	1.356	1.337	1.247	1.139	1.059	0.881	0.762
DDS85-25	1020	1.771	1.739	1.706	1.674	1.642	1.620	1.598	1.512	1.480	1.458	1.361	1.242	1.156	0.961	0.832
DDS85-27	1105	1.919	1.884	1.849	1.814	1.778	1.755	1.732	1.638	1.603	1.580	1.474	1.346	1.252	1.041	0.901
DDS85-29	1190	2.066	2.028	1.991	1.953	1.915	1.890	1.865	1.764	1.726	1.701	1.588	1.449	1.348	1.121	0.970
DDS85-31	1275	2.214	2.173	2.133	2.092	2.052	2.025	1.998	1.890	1.849	1.822	1.701	1.552	1.444	1.201	1.039
DDS85-33	1360	2.362	2.318	2.275	2.232	2.189	2.160	2.131	2.016	1.973	1.944	1.814	1.656	1.541	1.282	1.109
DDS125-11	625	1.017	0.995	0.973	0.952	0.932	0.913	0.895	0.849	0.837	0.826	0.793	0.760	0.729	0.643	0.562
DDS125-17	1000	1.627	1.591	1.557	1.524	1.492	1.461	1.432	1.358	1.339	1.322	1.269	1.216	1.166	1.029	0.900
DDS125-19	1125	1.830	1.790	1.752	1.714	1.678	1.644	1.611	1.528	1.506	1.487	1.428	1.368	1.312	1.158	1.012
DDS125-21	1250	2.034	1.989	1.947	1.905	1.865	1.827	1.790	1.698	1.674	1.653	1.587	1.521	1.458	1.287	1.125
DDS125-23	1375	2.237	2.188	2.141	2.096	2.052	2.009	1.969	1.867	1.841	1.818	1.746	1.673	1.603	1.415	1.237
DDS125-25	1500	2.440	2.387	2.336	2.286	2.238	2.192	2.148	2.037	2.008	1.983	1.904	1.825	1.749	1.544	1.350
DDS125-27	1625	2.644	2.586	2.531	2.477	2.425	2.375	2.327	2.207	2.176	2.148	2.063	1.977	1.895	1.673	1.462
DDS125-29	1750	2.847	2.785	2.725	2.667	2.611	2.557	2.506	2.377	2.343	2.314	2.222	2.129	2.041	1.801	1.575
DDS125-31	1875	3.051	2.984	2.920	2.858	2.798	2.740	2.685	2.547	2.511	2.479	2.381	2.281	2.187	1.930	1.687
DDS125-33	2000	3.254	3.183	3.115	3.048	2.984	2.923	2.864	2.716	2.678	2.644	2.539	2.433	2.332	2.059	1.800

*kW values listed represent 100% of the initial capacity.
 **At 77°F (25°C) includes intercell connector drop.
 All data subject to change without notice.

Slide-Lock™ Post Seal

- A positive fit epoxy dam has been added to lock the epoxy dam to the cell cover preventing electrolyte migration.
- Epoxy forms a seal around the lead post and allows movement between post and cover.
- Slide-Lock Post Seal allows for plate growth during battery's life without stressing the seal, unlike conventional burned-on posts.
- Epoxy seal is room temperature cured to eliminate thermal stresses that are introduced to the post seal by conventional burned-in posts.
- O-rings and compression rubber gasket provide seal between cover and epoxy cup.



Slide-Lock™ Seal



Represented by:

When ordering new batteries, also remember to properly recycle your old lead batteries. Federal and state regulations require lead-acid batteries be recycled. EnerSys' nationwide service organization can arrange pickup, transportation to and recycling at any one of our company affiliated smelters. Call 1-800-972-7372 for more information.



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