



data safe[®]
DX

Battery Performance Specifications

Features and Benefits

- Capacity range 0.626- 5.448 kW per cell
- Suitable for Uninterrupted Power Supply (UPS) and switchgear applications
- Multi-cell constructions
- Cover made from flame retardant PVC
- Container made from Styrene Acrylonitrile (SAN); optional flame retardant Polycarbonate (PC)

Construction

- Plate thickness: Positive 0.20 in (5.0 mm); Negative 0.12 in (3.1 mm)
- Plate suspension type: Positive Bridge hung; Negative Bottom supported
- Cover: Flame retardant PVC, UL94-VO/L.O.I. 28%
- Container: SAN or optional flame retardant PC
- Electrolyte over plates 2.88 in. (73.1mm)
- Sediment space 1.04 in. (26.4 mm)
- Long life Slide-Lock™ post seal design
- Specific gravity 1.215 standard; (1.250 available upon request)

Installation and Operation

- Float voltage settings
1.215: Acceptable min/max 2.17/2.26 Vpc recommended average = 2.21 v/c @ 77°F (25°C)
1.250: Acceptable min/max 2.21/2.30 Vpc recommended average = 2.25 v/c @ 77°F (25°C)
- Vent type- Flame Arrestor, Fused Alumina
- Bolt Connectors- 316 Stainless Steel, English measure, Hex-head
- Intercell connectors- Tin plated copper, optional lead plated copper

Standards

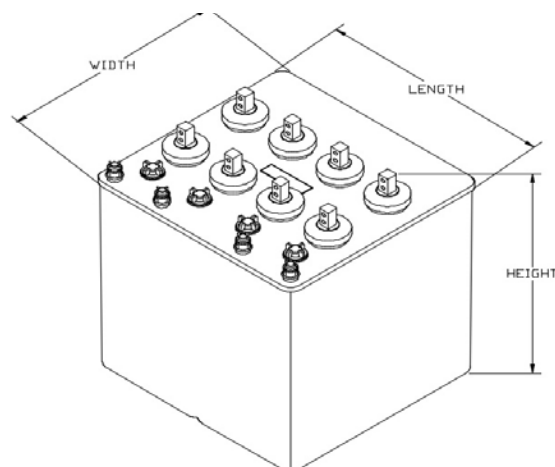
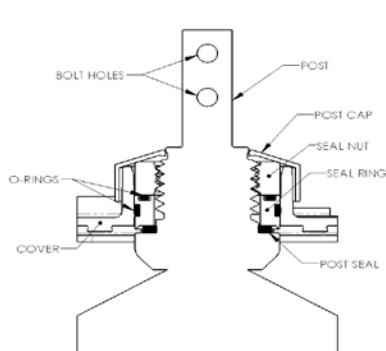
- The management systems governing the manufacture of this product are ISO 9001:2015 and ISO 14001:2015 certified
 - Available testing to IEEE 450 standards as well as customer specific applications
 - UL (1989) recognized component, File no. MH15740*
Note: Flame Arrestor Vent must be installed
- For battery sizing guidance, please use the EnerSys Battery Sizing Application at www.enersys.com

*currently for 1.215 standard gravity only

General Specifications

Battery Type	# of Cells	Nominal Voltage	Watts/ Cell				Nominal Dimensions						Weights and Volumes									
			15 min. rate to 1.67Vpc @ 77° (25°C) (1.215 S.G.)	15 min. rate to 1.67Vpc @ 77° (25°C) (1.250 S.G.)	8 hr. rate to 1.75pc @ 77° (25°C) (1.215 S.G.)	8 hr. rate to 1.75Vpc @ 77° (25°C) (1.250 S.G.)	Length*		Width		Height		Height to Top of Terminal Plate		Unpacked Weight		Packed Weight		Electrolyte Only (1.215 S.G.)			
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	gal	lit
4DX-05	4	8	626	702	265	300	9.5	241	16.0	406	22.0	559	26.2	665	256	116	263	119	76.2	34.6	7.5	28.4
4DX-07	4	8	937	1034	360	400	9.5	241	16.0	406	22.0	559	26.2	665	303	137	312	141	68.1	30.9	6.7	25.4
4DX-09	4	8	1212	1353	415	465	9.5	241	16.0	406	22.0	559	26.2	665	353	160	363	165	61.0	27.7	6.0	22.7
4DX-11	4	8	1527	1732	650	730	16.7	424	16.0	406	22.6	574	28.8	731	507	230	522	237	142.0	64.5	14.0	53.0
4DX-13	4	8	1838	2035	715	800	16.7	424	16.0	406	22.6	574	28.8	731	557	253	573	260	132.0	59.0	13.0	49.2
4DX-15	4	8	2121	2334	790	865	16.7	424	16.0	406	22.6	574	28.8	731	606	275	624	283	127.0	57.6	12.5	47.3
4DX-17	4	8	2381	2639	820	915	16.7	424	16.0	406	22.6	574	28.8	731	656	298	675	306	120.0	54.4	11.8	44.7
4DX-19	4	8	2635	2920	990	1105	20.2	513	16.0	406	22.6	574	30.0	763	781	354	800	363	138.0	62.6	13.6	51.5
4DX-21	4	8	3003	3290	1050	1180	20.2	513	16.0	406	22.6	574	30.0	763	830	376	849	385	131.0	59.5	12.9	48.8
2DX-23	2	4	3235	3577	1175	1325	12.1	308	16.0	406	22.6	574	30.0	763	473	215	489	222	87.4	39.6	8.6	32.6
2DX-25	2	4	3501	3852	1225	1375	12.1	308	16.0	406	22.6	574	30.0	763	499	227	515	234	83.4	37.8	8.2	31.0
2DX-27	2	4	3896	4283	1530	1715	16.7	424	16.0	406	22.6	574	30.1	764	587	266	604	274	139.0	63.2	13.7	51.9
2DX-29	2	4	4162	4584	1580	1785	16.7	424	16.0	406	22.6	574	30.1	764	613	278	632	287	135.0	61.3	13.3	50.3
2DX-31	2	4	4417	4873	1610	1835	16.7	424	16.0	406	22.6	574	30.1	764	638	290	657	298	131.0	59.5	12.9	48.8
2DX-33	2	4	4672	5164	1640	1880	16.7	424	16.0	406	22.6	574	30.1	764	663	301	682	310	127.0	57.6	12.5	47.3
2DX-35	2	4	4920	5448	1660	1915	16.7	424	16.0	406	22.6	574	30.1	764	680	309	700	318	123.0	55.8	12.1	45.8

* 0.25 inches must be added between units for spacing purposes when calculating total battery length.



Constant Power Discharge Performance Data

1.250 Specific Gravity Discharge Rates (kW per cell*) to 1.75Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05B	0.904	0.735	0.710	0.688	0.667	0.647	0.629	0.613	0.597	0.583	0.569	0.556	0.498	0.454	0.362	0.304	0.235	0.195	0.147	0.121
DX-07B	1.307	1.077	1.041	1.009	0.979	0.951	0.924	0.900	0.877	0.856	0.835	0.815	0.729	0.662	0.522	0.436	0.333	0.274	0.203	0.165
DX-09B	1.684	1.402	1.357	1.316	1.277	1.241	1.206	1.174	1.144	1.116	1.088	1.062	0.947	0.857	0.670	0.553	0.417	0.338	0.246	0.198
DX-11B	2.093	1.775	1.725	1.676	1.633	1.591	1.553	1.516	1.482	1.448	1.417	1.387	1.253	1.149	0.920	0.774	0.596	0.492	0.367	0.298
DX-13B	2.440	2.081	2.023	1.968	1.918	1.869	1.823	1.779	1.738	1.699	1.661	1.625	1.467	1.341	1.067	0.892	0.680	0.557	0.412	0.333
DX-15B	2.781	2.381	2.315	2.254	2.197	2.141	2.088	2.037	1.989	1.943	1.900	1.858	1.675	1.528	1.208	1.005	0.760	0.619	0.454	0.364
DX-17B	3.174	2.716	2.639	2.566	2.501	2.437	2.376	2.317	2.262	2.210	2.160	2.112	1.902	1.730	1.363	1.129	0.849	0.687	0.498	0.396
DX-19B	3.533	3.018	2.934	2.853	2.780	2.708	2.642	2.579	2.520	2.462	2.408	2.355	2.125	1.939	1.536	1.280	0.970	0.793	0.582	0.468
DX-21B	3.998	3.399	3.300	3.208	3.121	3.037	2.961	2.887	2.816	2.749	2.686	2.625	2.361	2.148	1.697	1.410	1.064	0.865	0.633	0.505
DX-23B	4.261	3.648	3.547	3.454	3.366	3.281	3.199	3.121	3.047	2.978	2.912	2.847	2.566	2.341	1.852	1.539	1.164	0.948	0.696	0.558
DX-25B	4.474	3.873	3.779	3.679	3.590	3.506	3.423	3.344	3.269	3.196	3.127	3.062	2.770	2.532	2.010	1.672	1.261	1.024	0.743	0.589
DX-27B	5.092	4.332	4.210	4.091	3.988	3.884	3.789	3.699	3.614	3.533	3.455	3.381	3.056	2.794	2.228	1.866	1.430	1.177	0.870	0.708
DX-29B	5.444	4.636	4.507	4.382	4.269	4.159	4.057	3.961	3.869	3.782	3.698	3.619	3.269	2.986	2.375	1.985	1.515	1.244	0.917	0.743
DX-31B	5.780	4.930	4.793	4.663	4.541	4.424	4.317	4.213	4.115	4.022	3.932	3.848	3.474	3.169	2.513	2.095	1.592	1.302	0.955	0.770
DX-33B	6.118	5.225	5.081	4.945	4.813	4.690	4.577	4.467	4.362	4.262	4.167	4.077	3.679	3.353	2.652	2.205	1.668	1.360	0.994	0.798
DX-35B	6.448	5.513	5.362	5.222	5.081	4.951	4.833	4.715	4.604	4.498	4.397	4.302	3.880	3.532	2.785	2.310	1.740	1.413	1.029	0.822

1.250 Specific Gravity Discharge Rates (kW per cell*) to 1.70Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05B	1.010	0.807	0.777	0.750	0.725	0.702	0.680	0.659	0.641	0.623	0.607	0.591	0.526	0.474	0.372	0.310	0.237	0.196	0.147	0.121
DX-07B	1.459	1.183	1.141	1.102	1.066	1.032	1.000	0.970	0.942	0.916	0.891	0.869	0.770	0.692	0.538	0.445	0.335	0.274	0.203	0.165
DX-09B	1.879	1.542	1.490	1.440	1.393	1.349	1.308	1.269	1.232	1.197	1.164	1.134	1.003	0.898	0.691	0.565	0.419	0.338	0.246	0.198
DX-11B	2.332	1.942	1.883	1.826	1.773	1.725	1.677	1.633	1.591	1.552	1.516	1.481	1.328	1.204	0.951	0.793	0.603	0.494	0.367	0.298
DX-13B	2.720	2.280	2.210	2.144	2.083	2.025	1.970	1.918	1.868	1.821	1.778	1.736	1.553	1.405	1.102	0.913	0.688	0.560	0.412	0.333
DX-15B	3.101	2.612	2.533	2.456	2.387	2.321	2.257	2.197	2.140	2.086	2.036	1.987	1.774	1.601	1.248	1.029	0.769	0.623	0.454	0.364
DX-17B	3.518	2.959	2.869	2.785	2.703	2.628	2.557	2.489	2.424	2.362	2.304	2.249	2.005	1.809	1.405	1.153	0.855	0.688	0.498	0.396
DX-19B	3.915	3.283	3.182	3.087	2.998	2.916	2.838	2.762	2.691	2.623	2.560	2.500	2.237	2.020	1.575	1.302	0.978	0.794	0.582	0.468
DX-21B	4.434	3.704	3.588	3.478	3.375	3.278	3.185	3.098	3.017	2.939	2.866	2.797	2.494	2.251	1.753	1.444	1.078	0.870	0.633	0.505
DX-23B	4.751	4.002	3.881	3.764	3.657	3.555	3.457	3.366	3.279	3.196	3.119	3.044	2.717	2.453	1.912	1.576	1.179	0.954	0.696	0.558
DX-25B	4.977	4.258	4.135	4.021	3.914	3.812	3.712	3.618	3.530	3.448	3.367	3.290	2.950	2.671	2.086	1.718	1.274	1.026	0.743	0.589
DX-27B	5.703	4.776	4.626	4.488	4.360	4.236	4.124	4.014	3.911	3.815	3.724	3.638	3.254	2.944	2.311	1.915	1.442	1.178	0.870	0.708
DX-29B	6.091	5.108	4.950	4.803	4.666	4.535	4.415	4.297	4.187	4.084	3.986	3.893	3.480	3.147	2.464	2.039	1.530	1.246	0.917	0.743
DX-31B	6.461	5.428	5.262	5.107	4.962	4.824	4.695	4.571	4.454	4.342	4.238	4.139	3.697	3.342	2.609	2.153	1.610	1.305	0.955	0.770
DX-33B	6.833	5.748	5.574	5.412	5.258	5.113	4.976	4.845	4.721	4.602	4.490	4.385	3.915	3.537	2.754	2.268	1.690	1.365	0.994	0.798
DX-35B	7.194	6.062	5.880	5.711	5.549	5.397	5.251	5.114	4.983	4.856	4.738	4.626	4.128	3.727	2.895	2.378	1.765	1.420	1.029	0.822

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

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

Constant Power Discharge Performance Data Continued

1.250 Specific Gravity Discharge Rates (kW per cell*) to 1.67Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05B	1.062	0.841	0.808	0.778	0.750	0.725	0.702	0.679	0.659	0.640	0.622	0.605	0.536	0.481	0.375	0.311	0.237	0.196	0.147	0.121
DX-07B	1.535	1.233	1.187	1.144	1.105	1.068	1.034	1.001	0.971	0.942	0.915	0.890	0.785	0.703	0.543	0.445	0.335	0.274	0.203	0.165
DX-09B	1.975	1.607	1.550	1.496	1.447	1.399	1.353	1.311	1.270	1.233	1.197	1.163	1.023	0.913	0.696	0.565	0.419	0.338	0.246	0.198
DX-11B	2.449	2.023	1.958	1.894	1.837	1.783	1.732	1.684	1.639	1.597	1.556	1.518	1.355	1.224	0.960	0.795	0.603	0.494	0.367	0.298
DX-13B	2.866	2.378	2.300	2.227	2.160	2.096	2.035	1.979	1.925	1.874	1.826	1.780	1.585	1.428	1.112	0.915	0.688	0.560	0.412	0.333
DX-15B	3.272	2.726	2.638	2.555	2.477	2.404	2.334	2.269	2.206	2.147	2.091	2.038	1.811	1.628	1.259	1.031	0.769	0.623	0.454	0.364
DX-17B	3.696	3.080	2.980	2.887	2.800	2.718	2.639	2.565	2.494	2.427	2.363	2.303	2.045	1.837	1.414	1.153	0.855	0.688	0.498	0.396
DX-19B	4.110	3.410	3.299	3.195	3.097	3.007	2.920	2.839	2.763	2.690	2.621	2.555	2.270	2.042	1.583	1.302	0.978	0.794	0.582	0.468
DX-21B	4.658	3.857	3.728	3.608	3.494	3.389	3.290	3.196	3.106	3.021	2.941	2.866	2.545	2.288	1.770	1.448	1.078	0.870	0.633	0.505
DX-23B	5.013	4.177	4.042	3.915	3.794	3.684	3.577	3.476	3.381	3.289	3.204	3.122	2.774	2.494	1.929	1.580	1.179	0.954	0.696	0.558
DX-25B	5.249	4.447	4.317	4.191	4.071	3.958	3.852	3.751	3.654	3.561	3.474	3.390	3.023	2.723	2.109	1.720	1.274	1.026	0.743	0.589
DX-27B	6.024	4.995	4.834	4.684	4.543	4.408	4.283	4.164	4.051	3.945	3.843	3.748	3.337	3.003	2.337	1.920	1.442	1.178	0.870	0.708
DX-29B	6.433	5.343	5.172	5.012	4.861	4.718	4.584	4.456	4.336	4.222	4.113	4.011	3.570	3.210	2.493	2.044	1.530	1.246	0.917	0.743
DX-31B	6.822	5.677	5.497	5.328	5.167	5.016	4.873	4.738	4.610	4.490	4.373	4.264	3.793	3.409	2.640	2.160	1.610	1.305	0.955	0.770
DX-33B	7.213	6.012	5.823	5.644	5.475	5.315	5.164	5.020	4.886	4.758	4.634	4.518	4.016	3.608	2.787	2.276	1.690	1.365	0.994	0.798
DX-35B	7.592	6.339	6.142	5.954	5.775	5.607	5.448	5.297	5.155	5.021	4.889	4.766	4.235	3.802	2.930	2.388	1.765	1.420	1.029	0.822

1.250 Specific Gravity Discharge Rates (kW per cell*) to 1.63Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05B	1.125	0.875	0.840	0.806	0.776	0.748	0.721	0.697	0.675	0.655	0.635	0.617	0.543	0.486	0.375	0.311	0.237	0.196	0.147	0.121
DX-07B	1.623	1.286	1.235	1.188	1.144	1.103	1.065	1.030	0.997	0.966	0.937	0.909	0.797	0.711	0.543	0.445	0.335	0.274	0.203	0.165
DX-09B	2.085	1.680	1.616	1.556	1.500	1.447	1.398	1.351	1.307	1.266	1.227	1.191	1.040	0.924	0.696	0.565	0.419	0.338	0.246	0.198
DX-11B	2.585	2.109	2.035	1.965	1.902	1.842	1.785	1.732	1.683	1.636	1.592	1.550	1.376	1.238	0.961	0.795	0.603	0.494	0.367	0.298
DX-13B	3.030	2.483	2.396	2.315	2.238	2.167	2.100	2.037	1.978	1.922	1.870	1.820	1.610	1.445	1.113	0.915	0.688	0.560	0.412	0.333
DX-15B	3.465	2.851	2.751	2.658	2.570	2.487	2.409	2.337	2.268	2.203	2.142	2.085	1.839	1.647	1.260	1.031	0.769	0.623	0.454	0.364
DX-17B	3.900	3.213	3.101	2.997	2.899	2.806	2.720	2.638	2.561	2.487	2.418	2.353	2.075	1.856	1.414	1.153	0.855	0.688	0.498	0.396
DX-19B	4.333	3.541	3.417	3.301	3.194	3.092	2.995	2.907	2.822	2.742	2.666	2.594	2.290	2.053	1.583	1.302	0.978	0.794	0.582	0.468
DX-21B	4.915	4.020	3.878	3.745	3.619	3.501	3.390	3.287	3.191	3.098	3.012	2.930	2.585	2.315	1.771	1.448	1.078	0.870	0.633	0.505
DX-23B	5.310	4.368	4.216	4.072	3.937	3.810	3.691	3.580	3.475	3.376	3.282	3.194	2.818	2.523	1.931	1.580	1.179	0.954	0.696	0.558
DX-25B	5.574	4.665	4.516	4.376	4.243	4.119	4.001	3.885	3.778	3.675	3.577	3.485	3.085	2.766	2.112	1.720	1.274	1.026	0.743	0.589
DX-27B	6.395	5.244	5.064	4.897	4.738	4.590	4.448	4.316	4.191	4.074	3.963	3.855	3.409	3.054	2.343	1.920	1.442	1.178	0.870	0.708
DX-29B	6.830	5.609	5.417	5.239	5.069	4.911	4.760	4.619	4.485	4.360	4.241	4.126	3.647	3.266	2.500	2.044	1.530	1.246	0.917	0.743
DX-31B	7.242	5.960	5.756	5.568	5.387	5.220	5.061	4.911	4.769	4.635	4.510	4.387	3.874	3.468	2.648	2.160	1.610	1.305	0.955	0.770
DX-33B	7.656	6.312	6.096	5.897	5.707	5.530	5.362	5.203	5.053	4.912	4.779	4.648	4.103	3.670	2.797	2.276	1.690	1.365	0.994	0.798
DX-35B	8.059	6.655	6.429	6.220	6.020	5.834	5.658	5.490	5.331	5.182	5.042	4.905	4.326	3.868	2.941	2.388	1.765	1.420	1.029	0.822

1.250 Specific Gravity Discharge Rates (kW per cell*) to 1.60Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05B	1.165	0.895	0.857	0.821	0.789	0.759	0.731	0.706	0.683	0.661	0.641	0.622	0.545	0.486	0.375	0.311	0.237	0.196	0.147	0.121
DX-07B	1.680	1.317	1.262	1.212	1.165	1.122	1.081	1.044	1.009	0.977	0.947	0.918	0.801	0.711	0.543	0.445	0.335	0.274	0.203	0.165
DX-09B	2.160	1.723	1.653	1.589	1.529	1.473	1.420	1.371	1.325	1.282	1.242	1.204	1.046	0.924	0.696	0.565	0.419	0.338	0.246	0.198
DX-11B	2.672	2.157	2.078	2.005	1.935	1.871	1.810	1.754	1.702	1.654	1.608	1.564	1.383	1.240	0.961	0.795	0.603	0.494	0.367	0.298
DX-13B	3.138	2.544	2.450	2.363	2.281	2.204	2.132	2.065	2.002	1.944	1.889	1.837	1.619	1.447	1.113	0.915	0.688	0.560	0.412	0.333
DX-15B	3.596	2.925	2.817	2.715	2.621	2.532	2.448	2.371	2.298	2.230	2.165	2.104	1.850	1.649	1.260	1.031	0.769	0.623	0.454	0.364
DX-17B	4.034	3.290	3.170	3.058	2.953	2.854	2.760	2.673	2.592	2.516	2.443	2.374	2.084	1.856	1.414	1.153	0.855	0.688	0.498	0.396
DX-19B	4.477	3.613	3.480	3.357	3.241	3.132	3.030	2.933	2.843	2.760	2.680	2.606	2.294	2.053	1.583	1.302	0.978	0.794	0.582	0.468
DX-21B	5.087	4.117	3.964	3.820	3.685	3.560	3.441	3.332	3.230	3.134	3.044	2.958	2.600	2.319	1.771	1.448	1.078	0.870	0.633	0.505
DX-23B	5.510	4.482	4.315	4.160	4.016	3.879	3.750	3.632	3.521	3.417	3.318	3.224	2.834	2.526	1.931	1.580	1.179	0.954	0.696	0.558
DX-25B	5.775	4.802	4.640	4.489	4.345	4.209	4.081	3.969	3.844	3.734	3.631	3.532	3.112	2.776	2.112	1.720	1.274	1.026	0.743	0.589
DX-27B	6.624	5.399	5.206	5.025	4.853	4.692	4.543	4.403	4.269	4.144	4.025	3.913	3.442	3.072	2.343	1.920	1.442	1.178	0.870	0.708
DX-29B	7.075	5.775	5.569	5.375	5.192	5.021	4.861	4.712	4.569	4.435	4.307	4.188	3.682	3.285	2.500	2.044	1.530	1.246	0.917	0.743
DX-31B	7.505	6.136	5.917	5.713	5.519	5.337	5.168	5.010	4.858	4.715	4.579	4.452	3.912	3.488	2.648	2.160	1.610	1.305	0.955	0.770
DX-33B	7.936	6.497	6.266	6.051	5.847	5.655	5.475	5.308	5.147	4.996	4.852	4.717	4.143	3.692	2.797	2.276	1.690	1.365	0.994	0.798
DX-35B	8.354	6.851	6.607	6.381	6.168	5.966	5.777	5.600	5.431	5.272	5.119	4.977	4.369	3.891	2.941	2.388	1.765	1.420	1.029	0.822

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

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

Constant Power Discharge Performance Data Continued

1.215 Specific Gravity Discharge Rates (kW per cell*) to 1.75Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05	0.754	0.646	0.628	0.611	0.594	0.579	0.564	0.551	0.538	0.525	0.513	0.502	0.451	0.410	0.323	0.269	0.208	0.172	0.129	0.106
DX-07	1.114	0.957	0.931	0.906	0.883	0.860	0.837	0.816	0.796	0.776	0.758	0.741	0.663	0.603	0.477	0.397	0.301	0.247	0.182	0.148
DX-09	1.447	1.251	1.218	1.186	1.155	1.126	1.099	1.070	1.043	1.017	0.992	0.968	0.865	0.782	0.611	0.504	0.375	0.304	0.222	0.178
DX-11	1.832	1.570	1.526	1.485	1.446	1.409	1.374	1.341	1.309	1.278	1.249	1.222	1.099	0.999	0.788	0.660	0.514	0.426	0.319	0.262
DX-13	2.178	1.872	1.822	1.774	1.728	1.684	1.642	1.602	1.564	1.527	1.493	1.460	1.313	1.196	0.946	0.788	0.599	0.492	0.362	0.294
DX-15	2.548	2.182	2.121	2.064	2.009	1.957	1.908	1.861	1.816	1.774	1.733	1.695	1.523	1.383	1.085	0.901	0.682	0.556	0.408	0.330
DX-17	2.870	2.453	2.383	2.318	2.255	2.196	2.140	2.086	2.035	1.987	1.941	1.897	1.700	1.541	1.202	0.993	0.746	0.603	0.438	0.350
DX-19	3.125	2.668	2.594	2.521	2.453	2.387	2.328	2.271	2.216	2.165	2.116	2.069	1.861	1.696	1.343	1.119	0.850	0.695	0.512	0.413
DX-21	3.496	2.997	2.915	2.834	2.758	2.686	2.617	2.555	2.493	2.434	2.378	2.325	2.093	1.906	1.507	1.251	0.942	0.766	0.559	0.447
DX-23	3.864	3.274	3.179	3.088	3.004	2.923	2.847	2.776	2.708	2.643	2.581	2.523	2.266	2.062	1.627	1.352	1.024	0.836	0.612	0.492
DX-25	4.188	3.547	3.441	3.342	3.250	3.162	3.080	3.002	2.928	2.857	2.790	2.726	2.446	2.223	1.750	1.451	1.095	0.891	0.650	0.520
DX-27	4.634	3.935	3.824	3.717	3.617	3.522	3.433	3.349	3.268	3.191	3.118	3.049	2.744	2.504	1.986	1.659	1.267	1.043	0.771	0.626
DX-29	4.960	4.208	4.088	3.972	3.865	3.762	3.666	3.575	3.489	3.406	3.327	3.253	2.925	2.666	2.110	1.759	1.339	1.098	0.809	0.654
DX-31	5.274	4.470	4.340	4.216	4.101	3.990	3.888	3.791	3.698	3.609	3.525	3.446	3.094	2.816	2.223	1.848	1.401	1.144	0.839	0.675
DX-33	5.588	4.733	4.592	4.460	4.338	4.220	4.110	4.007	3.908	3.813	3.723	3.639	3.265	2.968	2.337	1.938	1.463	1.191	0.869	0.695
DX-35	5.897	4.990	4.838	4.689	4.568	4.442	4.326	4.217	4.112	4.011	3.916	3.826	3.429	3.113	2.444	2.022	1.520	1.232	0.894	0.712

1.215 Specific Gravity Discharge Rates (kW per cell*) to 1.70Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05	0.840	0.705	0.683	0.663	0.643	0.625	0.607	0.591	0.574	0.559	0.545	0.532	0.474	0.426	0.331	0.273	0.209	0.172	0.129	0.106
DX-07	1.243	1.049	1.018	0.988	0.959	0.932	0.906	0.882	0.859	0.836	0.814	0.793	0.704	0.632	0.492	0.405	0.303	0.247	0.182	0.148
DX-09	1.596	1.358	1.319	1.280	1.244	1.210	1.176	1.145	1.115	1.085	1.058	1.030	0.911	0.816	0.628	0.512	0.376	0.304	0.222	0.178
DX-11	2.043	1.716	1.664	1.614	1.567	1.523	1.480	1.440	1.401	1.364	1.330	1.298	1.157	1.041	0.809	0.670	0.515	0.426	0.319	0.262
DX-13	2.443	2.056	1.994	1.935	1.880	1.827	1.778	1.731	1.685	1.641	1.600	1.561	1.391	1.254	0.977	0.806	0.603	0.492	0.362	0.294
DX-15	2.842	2.386	2.313	2.243	2.177	2.115	2.056	2.000	1.945	1.894	1.846	1.801	1.604	1.442	1.117	0.916	0.684	0.556	0.408	0.330
DX-17	3.201	2.683	2.600	2.521	2.445	2.374	2.306	2.243	2.181	2.123	2.069	2.018	1.792	1.609	1.239	1.011	0.749	0.603	0.438	0.350
DX-19	3.536	2.958	2.863	2.774	2.692	2.615	2.542	2.472	2.404	2.342	2.284	2.229	1.986	1.791	1.398	1.154	0.867	0.703	0.514	0.413
DX-21	3.981	3.346	3.240	3.142	3.050	2.964	2.879	2.801	2.728	2.659	2.594	2.532	2.255	2.035	1.580	1.298	0.967	0.776	0.561	0.447
DX-23	4.379	3.637	3.519	3.409	3.305	3.207	3.115	3.027	2.944	2.867	2.793	2.723	2.422	2.179	1.692	1.393	1.038	0.840	0.612	0.492
DX-25	4.747	3.940	3.811	3.690	3.578	3.471	3.371	3.274	3.183	3.100	3.020	2.944	2.615	2.351	1.821	1.495	1.110	0.895	0.650	0.520
DX-27	5.253	4.372	4.231	4.100	3.977	3.861	3.752	3.648	3.551	3.458	3.370	3.287	2.929	2.642	2.063	1.706	1.283	1.046	0.771	0.626
DX-29	5.622	4.675	4.524	4.383	4.251	4.126	4.009	3.896	3.791	3.692	3.598	3.509	3.124	2.815	2.193	1.810	1.356	1.102	0.809	0.654
DX-31	5.978	4.966	4.805	4.653	4.512	4.379	4.253	4.132	4.019	3.915	3.814	3.718	3.307	2.977	2.312	1.903	1.419	1.149	0.839	0.675
DX-33	6.334	5.257	5.086	4.925	4.774	4.632	4.499	4.369	4.249	4.138	4.031	3.929	3.491	3.139	2.431	1.997	1.483	1.196	0.869	0.695
DX-35	6.682	5.541	5.360	5.189	5.030	4.879	4.737	4.599	4.471	4.354	4.241	4.133	3.668	3.295	2.545	2.086	1.542	1.239	0.894	0.712

1.215 Specific Gravity Discharge Rates (kW per cell*) to 1.67Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05	0.885	0.734	0.710	0.687	0.666	0.645	0.626	0.608	0.590	0.574	0.559	0.544	0.482	0.432	0.332	0.273	0.209	0.172	0.129	0.106
DX-07	1.313	1.095	1.060	1.027	0.995	0.965	0.937	0.910	0.885	0.860	0.837	0.815	0.719	0.643	0.495	0.405	0.303	0.247	0.182	0.148
DX-09	1.676	1.409	1.366	1.325	1.286	1.248	1.212	1.177	1.144	1.113	1.083	1.054	0.928	0.828	0.630	0.512	0.376	0.304	0.222	0.178
DX-11	2.157	1.790	1.731	1.676	1.623	1.574	1.527	1.483	1.441	1.402	1.364	1.329	1.177	1.056	0.812	0.670	0.515	0.426	0.319	0.262
DX-13	2.585	2.149	2.079	2.014	1.951	1.893	1.838	1.786	1.737	1.689	1.645	1.603	1.420	1.275	0.984	0.806	0.603	0.492	0.362	0.294
DX-15	2.999	2.488	2.406	2.329	2.255	2.187	2.121	2.060	2.001	1.946	1.894	1.844	1.633	1.463	1.122	0.916	0.684	0.556	0.408	0.330
DX-17	3.375	2.797	2.705	2.616	2.533	2.455	2.381	2.311	2.245	2.182	2.122	2.066	1.825	1.633	1.245	1.011	0.749	0.603	0.438	0.350
DX-19	3.746	3.096	2.994	2.894	2.801	2.716	2.635	2.558	2.484	2.415	2.351	2.291	2.032	1.826	1.413	1.161	0.867	0.703	0.514	0.413
DX-21	4.238	3.518	3.403	3.292	3.189	3.092	3.003	2.917	2.837	2.760	2.686	2.617	2.320	2.083	1.603	1.310	0.967	0.776	0.561	0.447
DX-23	4.653	3.816	3.685	3.562	3.445	3.337	3.235	3.138	3.047	2.962	2.881	2.805	2.482	2.223	1.711	1.396	1.038	0.840	0.612	0.492
DX-25	5.042	4.133	3.990	3.857	3.729	3.612	3.501	3.396	3.297	3.204	3.115	3.033	2.680	2.399	1.842	1.499	1.110	0.895	0.650	0.520
DX-27	5.584	4.586	4.430	4.284	4.145	4.017	3.896	3.781	3.672	3.571	3.474	3.385	3.002	2.693	2.085	1.710	1.283	1.046	0.771	0.626
DX-29	5.975	4.904	4.737	4.580	4.431	4.293	4.162	4.039	3.923	3.814	3.710	3.614	3.201	2.870	2.217	1.814	1.356	1.102	0.809	0.654
DX-31	6.351	5.209	5.031	4.863	4.703	4.556	4.417	4.285	4.161	4.045	3.933	3.831	3.389	3.036	2.338	1.908	1.419	1.149	0.839	0.675
DX-33	6.727	5.515	5.325	5.147	4.977	4.820	4.672	4.532	4.400	4.276	4.158	4.049	3.578	3.202	2.460	2.003	1.483	1.196	0.869	0.695
DX-35	7.096	5.813	5.612	5.424	5.243	5.077	4.920	4.771	4.632	4.501	4.376	4.260	3.760	3.362	2.576	2.092	1.542	1.239	0.894	0.712

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

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

Constant Power Discharge Performance Data Continued

1.215 Specific Gravity Discharge Rates (kW per cell*) to 1.63Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	3-	45	50	90	120	180	240
DX-05	0.933	0.766	0.739	0.713	0.689	0.666	0.645	0.625	0.606	0.588	0.571	0.555	0.488	0.435	0.332	0.273	0.209	0.172	0.129	0.106
DX-07	1.386	1.145	1.105	1.068	1.032	0.998	0.967	0.937	0.909	0.883	0.858	0.834	0.731	0.650	0.495	0.405	0.303	0.247	0.182	0.148
DX-09	1.767	1.465	1.416	1.370	1.327	1.286	1.247	1.209	1.173	1.138	1.106	1.075	0.941	0.834	0.630	0.512	0.376	0.304	0.222	0.178
DX-11	2.274	1.870	1.803	1.741	1.681	1.626	1.574	1.525	1.480	1.436	1.395	1.356	1.194	1.065	0.812	0.670	0.515	0.426	0.319	0.262
DX-13	2.735	2.251	2.171	2.097	2.026	1.960	1.899	1.842	1.787	1.735	1.686	1.639	1.443	1.290	0.984	0.806	0.603	0.492	0.362	0.294
DX-15	3.162	2.599	2.506	2.419	2.336	2.259	2.187	2.119	2.055	1.994	1.937	1.882	1.655	1.475	1.122	0.916	0.684	0.556	0.408	0.330
DX-17	3.560	2.922	2.817	2.718	2.625	2.537	2.454	2.377	2.305	2.236	2.171	2.109	1.851	1.647	1.245	1.011	0.749	0.603	0.438	0.350
DX-19	3.983	3.247	3.129	3.016	2.910	2.812	2.722	2.637	2.557	2.483	2.412	2.345	2.069	1.851	1.419	1.161	0.867	0.703	0.514	0.413
DX-21	4.521	3.703	3.571	3.449	3.334	3.226	3.126	3.029	2.939	2.854	2.774	2.697	2.375	2.121	1.614	1.310	0.967	0.776	0.561	0.447
DX-23	4.945	4.008	3.858	3.720	3.589	3.466	3.353	3.247	3.147	3.053	2.963	2.879	2.529	2.256	1.713	1.396	1.038	0.840	0.612	0.492
DX-25	5.360	4.341	4.178	4.028	3.886	3.752	3.628	3.513	3.404	3.302	3.205	3.113	2.732	2.435	1.845	1.499	1.110	0.895	0.650	0.520
DX-27	5.931	4.817	4.639	4.474	4.318	4.172	4.037	3.911	3.792	3.680	3.574	3.473	3.058	2.732	2.087	1.710	1.283	1.046	0.771	0.626
DX-29	6.348	5.151	4.960	4.783	4.615	4.458	4.314	4.178	4.051	3.930	3.816	3.708	3.262	2.912	2.220	1.814	1.356	1.102	0.809	0.654
DX-31	6.749	5.471	5.267	5.078	4.900	4.732	4.578	4.433	4.296	4.168	4.046	3.931	3.454	3.081	2.341	1.908	1.419	1.149	0.839	0.675
DX-33	7.152	5.792	5.576	5.375	5.185	5.007	4.842	4.688	4.543	4.407	4.277	4.155	3.647	3.251	2.463	2.003	1.483	1.196	0.869	0.695
DX-35	7.546	6.106	5.877	5.663	5.464	5.274	5.099	4.937	4.783	4.638	4.502	4.372	3.834	3.414	2.579	2.092	1.542	1.239	0.894	0.712

1.215 Specific Gravity Discharge Rates (kW per cell*) to 1.60Vpc at 77°F (25°C)**

Battery Type	Minutes																			
	5	10	11	12	13	14	15	16	17	18	19	20	25	30	45	50	90	120	180	240
DX-05	0.965	0.786	0.756	0.728	0.702	0.677	0.654	0.633	0.613	0.594	0.577	0.560	0.489	0.435	0.332	0.273	0.209	0.172	0.129	0.106
DX-07	1.434	1.175	1.132	1.091	1.053	1.017	0.983	0.951	0.921	0.894	0.867	0.842	0.735	0.650	0.495	0.405	0.303	0.247	0.182	0.148
DX-09	1.828	1.498	1.445	1.395	1.349	1.305	1.264	1.224	1.186	1.151	1.116	1.084	0.943	0.834	0.630	0.512	0.376	0.304	0.222	0.178
DX-11	2.354	1.919	1.846	1.778	1.714	1.655	1.599	1.546	1.498	1.453	1.410	1.369	1.197	1.065	0.812	0.670	0.515	0.426	0.319	0.262
DX-13	2.834	2.313	2.226	2.145	2.069	1.998	1.931	1.869	1.811	1.757	1.705	1.657	1.451	1.290	0.984	0.806	0.603	0.492	0.362	0.294
DX-15	3.273	2.667	2.565	2.471	2.382	2.299	2.221	2.148	2.080	2.017	1.957	1.900	1.661	1.475	1.122	0.916	0.684	0.556	0.408	0.330
DX-17	3.683	2.997	2.882	2.775	2.676	2.582	2.493	2.410	2.334	2.262	2.194	2.129	1.857	1.647	1.245	1.011	0.749	0.603	0.438	0.350
DX-19	4.138	3.331	3.201	3.080	2.967	2.862	2.765	2.675	2.592	2.514	2.440	2.371	2.082	1.858	1.419	1.161	0.867	0.703	0.514	0.413
DX-21	4.706	3.817	3.674	3.541	3.416	3.301	3.191	3.088	2.992	2.902	2.817	2.737	2.399	2.136	1.614	1.310	0.967	0.776	0.561	0.447
DX-23	5.141	4.124	3.960	3.809	3.669	3.538	3.416	3.301	3.196	3.096	3.003	2.914	2.548	2.261	1.713	1.396	1.038	0.840	0.612	0.492
DX-25	5.572	4.466	4.289	4.124	3.972	3.829	3.697	3.572	3.458	3.349	3.248	3.152	2.753	2.440	1.845	1.499	1.110	0.895	0.650	0.520
DX-27	6.170	4.957	4.762	4.581	4.415	4.259	4.112	3.975	3.850	3.732	3.620	3.515	3.080	2.738	2.087	1.710	1.283	1.046	0.771	0.626
DX-29	6.602	5.300	5.091	4.898	4.719	4.552	4.394	4.247	4.113	3.986	3.866	3.754	3.286	2.919	2.220	1.814	1.356	1.102	0.809	0.654
DX-31	7.018	5.629	5.407	5.200	5.009	4.831	4.663	4.507	4.363	4.227	4.100	3.980	3.480	3.088	2.341	1.908	1.419	1.149	0.839	0.675
DX-33	7.435	5.959	5.723	5.503	5.300	5.110	4.933	4.767	4.614	4.469	4.334	4.206	3.675	3.258	2.463	2.003	1.483	1.196	0.869	0.695
DX-35	7.844	6.281	6.031	5.799	5.584	5.383	5.196	5.020	4.858	4.705	4.562	4.427	3.864	3.421	2.579	2.092	1.542	1.239	0.894	0.712

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

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

Catalog Rint and Isc Catalog Values

Battery Type	Resistance (μOhm)	Isc Amps
4DX-05	375	5330
4DX-07	275	7270
4DX-09	222	9010
4DX-11	180	11110
4DX-13	155	12900
4DX-15	137	14600
4DX-17	125	15960
4DX-19	109	18350
4DX-21	99	20200
2DX-23	91	21980
2DX-25	85	23530
2DX-27	79	25320
2DX-29	74	27030
2DX-31	69	28990
2DX-33	65	30770
2DX-35	62	32260

Battery Type	Resistance (μOhm)	Isc Amps
4DX-05B	375	5430
4DX-07B	275	7400
4DX-09B	222	9170
4DX-11B	180	11310
4DX-13B	155	13130
4DX-15B	137	14850
4DX-17B	125	16240
4DX-19B	109	18670
4DX-21B	99	20560
2DX-23B	91	22360
2DX-25B	85	23940
2DX-27B	79	25760
2DX-29B	74	27500
2DX-31B	69	29490
2DX-33B	65	31310
2DX-35B	62	32820



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