

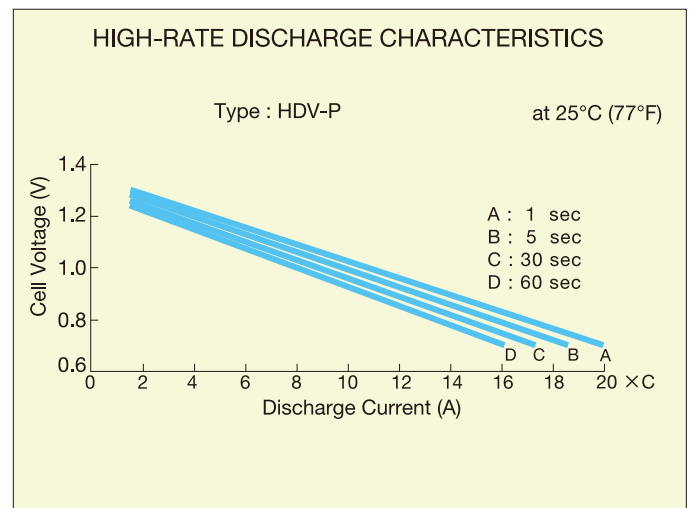
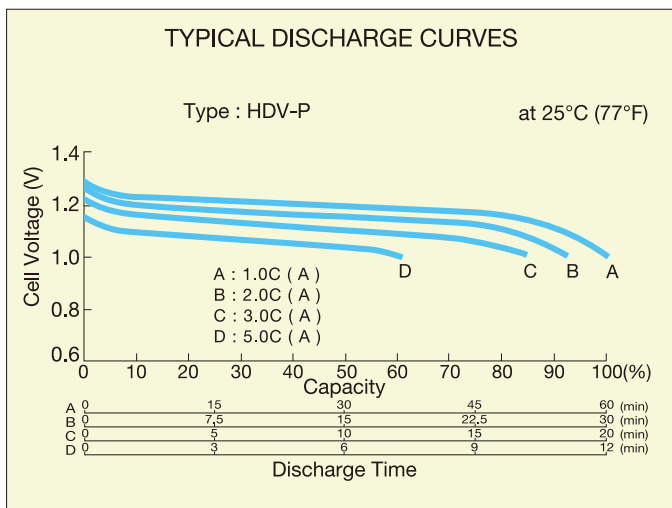
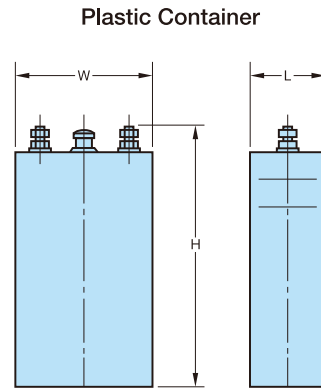
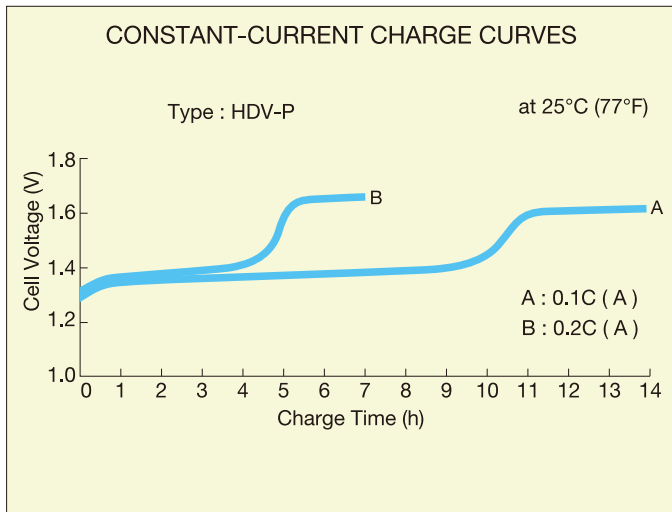
CELL DIMENSIONS AND CELL PERFORMANCE

VERY HIGH-RATE TYPE HDV-P Dimensional Data (Plastic Container)

Cell type	Rated Capacity (Ah/1H.R.)	Dimensions (mm)			Approx. Weight (kg)	Approx. Electrolyte (ℓ)
		Height	Width	Length		
HDV 10P	10	272	143	52	2.8	0.9
HDV 20P	20	272	143	52	3.1	0.7
HDV 30P	30	282	143	76	4.7	1.3
HDV 40P	40	282	143	76	5.2	1.0
HDV 50P	50	282	145	100	6.9	1.4
HDV 60P	60	282	145	100	7.2	1.2
HDV 80P	80	373	170	120	11.0	2.8
HDV 100P	100	373	170	120	12.0	2.4
HDV 120P	120	373	170	195	17.0	5.3
HDV 150P	150	373	170	195	19.5	4.6
HDV 200P	200	373	170	195	20.7	3.2
HDV 250P	250	373	170	285	31.0	6.4
HDV 300P	300	373	170	390	39.0	9.4
HDV 350P	350	373	170	390	42.0	8.6
HDV 400P	400	375	170	515	51.0	13.0
HDV 450P	450	375	170	515	55.0	12.0

*The nominal capacity refers to the 1h discharge rate to an end voltage of 1.00V/cell after charging for 7 hours with 5h-rate (0.2×C amps.)

Performance Data



HDV AVAILABLE AMPERES AT 25°C(77°F) FULLY CHARGED

END VOLTAGE 1.14V/CELL

Cell type	C Ah	Hours							Minutes							Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	15	5	1	
HDV 10P	10							8.85	15.2	18.9	21.7	24.4	29.4	38.5	43.5	45.5	55.6	62.5	
HDV 20P	20							17.7	30.3	37.7	43.5	48.8	58.8	76.9	87.0	90.9	111	125	
HDV 30P	30							26.5	45.5	56.6	65.2	73.2	88.2	115	130	136	167	188	
HDV 40P	40							35.4	60.6	75.5	87.0	97.6	118	154	174	182	222	250	
HDV 50P	50							44.2	75.8	94.3	109	122	147	192	217	227	278	313	
HDV 60P	60							53.1	90.9	113	130	146	176	231	261	273	333	375	
HDV 80P	80							70.8	121	151	174	195	235	308	348	364	444	500	
HDV 100P	100							88.5	152	189	217	244	294	385	435	455	556	625	
HDV 120P	120							106	182	226	261	293	353	462	522	545	667	750	
HDV 150P	150							133	227	283	326	366	441	577	652	682	833	938	
HDV 200P	200							177	303	377	435	488	588	769	870	909	1110	1250	
HDV 250P	250							221	379	472	543	610	735	962	1090	1140	1390	1560	
HDV 300P	300							265	455	566	652	732	882	1150	1300	1360	1670	1880	
HDV 350P	350							310	530	660	761	854	1030	1350	1520	1590	1940	2190	
HDV 400P	400							354	606	755	870	976	1180	1540	1740	1820	2220	2500	
HDV 450P	450							398	682	849	978	1100	1320	1730	1960	2050	2500	2810	

END VOLTAGE 1.10V/CELL

Cell type	C Ah	Hours							Minutes							Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	15	5	1	
HDV 10P	10							9.26	16.1	20.8	25.0	31.3	38.5	52.6	55.6	58.1	58.8	76.9	
HDV 20P	20							18.5	32.3	41.7	50.0	62.5	76.9	105	111	116	118	154	
HDV 30P	30							27.8	48.4	62.5	75.0	93.8	115	158	167	174	176	231	
HDV 40P	40							37.0	64.5	83.3	100	125	154	211	222	233	235	308	
HDV 50P	50							46.3	80.7	104	125	156	192	263	278	291	294	385	
HDV 60P	60							55.6	96.8	125	150	188	231	316	333	349	353	462	
HDV 80P	80							74.1	129	167	200	250	308	421	444	465	471	615	
HDV 100P	100							92.6	161	208	250	313	385	526	556	581	588	769	
HDV 120P	120							111	194	250	300	375	462	632	667	698	706	723	
HDV 150P	150							139	242	313	375	469	577	789	833	872	882	1150	
HDV 200P	200							185	323	417	500	625	769	1050	1110	1160	1170	1530	
HDV 250P	250							231	403	521	625	781	962	1310	1380	1450	1470	1920	
HDV 300P	300							278	484	625	750	938	1150	1570	1660	1740	1760	2300	
HDV 350P	350							324	565	729	875	1090	1340	1840	1940	2030	2050	2690	
HDV 400P	400							370	645	833	1000	1250	1530	2100	2220	2320	2350	3070	
HDV 450P	450							417	726	938	1120	1400	1730	2360	2500	2610	2640	3460	

END VOLTAGE 1.06V/CELL

Cell type	C Ah	Hours							Minutes							Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	15	5	1	
HDV 10P	10							9.62	17.5	23.8	29.4	37.0	45.5	58.8	66.7	69.0	71.4	89.3	
HDV 20P	20							19.2	35.1	47.6	58.8	74.1	90.9	118	133	138	143	179	
HDV 30P	30							28.9	52.6	71.4	88.2	111	136	176	200	207	214	268	
HDV 40P	40							38.5	70.2	95.2	118	148	182	235	267	276	286	357	
HDV 50P	50							48.1	87.7	119	147	185	227	294	333	345	357	446	
HDV 60P	60							57.7	105	143	176	222	273	353	400	414	429	536	
HDV 80P	80							76.9	140	190	235	296	364	471	533	552	571	714	
HDV 100P	100							96.2	175	238	294	370	455	588	667	690	714	893	
HDV 120P	120							115	211	286	353	444	545	706	800	828	857	1070	
HDV 150P	150							144	263	357	441	556	682	882	1000	1030	1070	1330	
HDV 200P	200							192	351	476	588	741	909	1170	1330	1380	1420	1780	
HDV 250P	250							240	439	595	735	926	1130	1470	1660	1720	1780	2230	
HDV 300P	300							288	526	714	882	1110	1360	1760	2000	2070	2140	2670	
HDV 350P	350							337	614	833	1020	1290	1590	2050	2330	2410	2500	3120	
HDV 400P	400							385	702	952	1170	1480	1810	2350	2660	2760	2850	3570	
HDV 450P	450							433	789	1070	1320	1660	2040	2640	3000	3100	3210	4010	

END VOLTAGE 1.00V/CELL

Cell type	C Ah	Hours							Minutes							Seconds			
		10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	15	5	1	
HDV 10P	10							10.2	18.9	26.3	33.3	43.5	55.6	76.9	83.3	87.7	90.9	107	
HDV 20P	20							20.4	37.7	52.6	66.7	87.0	111	154	167	175	182	215	
HDV 30P	30							30.6	56.6	79.0	100	130	167	231	250	263	273	323	
HDV 40P	40							40.8	75.5	105	133	174	222	308	333	351	364	430	
HDV 50P	50							51.8	94.3	132	167	217	278	385	417	439	455	538	
HDV 60P	60							61.2	113	158	200	261	333	462	500	526	545	645	
HDV 80P	80							81.6	151	211	267	348	444	615	667	702	727	860	
HDV 100P	100							102	189	263	333	435	556	769	833	877	909	1070	
HDV 120P	120							122	226	316	400	522	667	923	1000	1050	1090	1290	
HDV 150P	150							153	283	395	500	652	833	1150	1250	1310	1360	1610	
HDV 200P	200							204	377	526	667	870	1110	1530	1660	1750	1810	2150	
HDV 250P	250							255	472	658	833	1080	1380	1920	2080	2190	2270	2680	
HDV 300P	300							306	566	789	1000	1300	1660	2300	2500	2630	2720	3220	
HDV 350P	350							357	660	921	1160	1520	1940	2690	2910	3070	3180	3760	
HDV 400P	400							408	755	1050	1330	1730	2220	3070	3330	3500	3630	4300	
HDV 450P	450							459	849	1180	1500	1950	2500	3460	3750	3940	4090	4830	