



# XHRL Series

## Extended Discharge Tables

12V Top Terminal VRLA-AGM

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### XHRL12170W

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	289	224	202	185	155	133	98.1	78.2	56.2	40.4	32.0	23.0
<b>1.65V</b>	266	209	191	176	149	130	96.5	77.3	55.8	40.2	31.8	22.9
<b>1.67V</b>	257	204	187	173	147	128	95.9	77.0	55.6	40.1	31.8	22.9
<b>1.70V</b>	240	194	179	165	142	125	94.4	76.0	55.1	39.9	31.6	22.8
<b>1.75V</b>	215	177	162	150	133	117	90.8	73.4	53.9	39.3	31.2	22.6
<b>1.80V</b>	177	156	146	137	121	107	84.4	68.7	51.5	38.1	30.4	22.1
<b>1.85V</b>	137	132	130	119	104	94.1	74.5	61.9	47.7	35.6	28.6	20.9

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	2821	2250	2061	1882	1630	1411	1059	855	632	463	368	267
<b>1.65V</b>	2674	2153	1966	1812	1593	1377	1047	847	628	461	367	266
<b>1.67V</b>	2616	2114	1928	1784	1578	1363	1042	844	627	461	366	265
<b>1.70V</b>	2472	2028	1860	1733	1534	1333	1029	835	623	459	365	265
<b>1.75V</b>	2219	1872	1743	1644	1439	1265	990	810	611	453	361	263
<b>1.80V</b>	2001	1707	1622	1530	1315	1169	922	765	588	440	353	258
<b>1.85V</b>	1627	1566	1420	1310	1154	1045	826	699	553	414	335	246

### XHRL12250W

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	403	326	293	267	224	192	142	113	81.4	57.7	45.2	32.0
<b>1.65V</b>	378	305	278	253	216	185	139	111	80.7	57.3	44.9	31.9
<b>1.67V</b>	368	296	271	247	212	183	138	110	80.4	57.1	44.8	31.8
<b>1.70V</b>	348	283	259	238	205	178	135	108	79.7	56.7	44.5	31.7
<b>1.75V</b>	315	258	237	221	190	168	129	105	77.6	55.5	43.8	31.3
<b>1.80V</b>	277	231	216	198	173	154	121	98.7	74.1	53.4	42.4	30.5
<b>1.85V</b>	234	201	185	173	153	137	111	90.9	68.6	49.9	39.9	29.0

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	3948	3231	2934	2712	2317	2025	1546	1248	923	663	524	377
<b>1.65V</b>	3746	3078	2823	2630	2248	1983	1524	1234	916	659	522	375
<b>1.67V</b>	3665	3017	2779	2598	2220	1966	1516	1229	914	658	521	375
<b>1.70V</b>	3524	2914	2703	2512	2165	1926	1495	1214	906	653	518	373
<b>1.75V</b>	3287	2734	2550	2345	2055	1830	1444	1179	886	642	510	369
<b>1.80V</b>	2950	2525	2314	2155	1917	1702	1372	1126	851	620	496	361
<b>1.85V</b>	2610	2205	2064	1955	1714	1545	1270	1046	796	585	470	345



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### XHRL12360W / XHRL12360WG

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	577	468	422	387	331	287	207	164	117	83.7	65.8	46.9
<b>1.65V</b>	539	435	397	368	314	277	202	161	116	83.0	65.4	46.7
<b>1.67V</b>	524	421	386	360	308	272	200	159	116	82.8	65.2	46.6
<b>1.70V</b>	490	400	370	342	296	262	195	156	115	82.1	64.8	46.4
<b>1.75V</b>	438	364	334	310	275	240	185	150	111	80.3	63.7	45.9
<b>1.80V</b>	366	316	295	278	243	215	170	140	106	77.1	61.5	44.7
<b>1.85V</b>	294	272	254	235	208	189	150	126	97.8	71.6	57.4	42.0

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	5772	4683	4324	3949	3419	3001	2295	1836	1340	966	766	552
<b>1.65V</b>	5506	4467	4095	3772	3312	2903	2253	1809	1328	960	762	551
<b>1.67V</b>	5399	4381	4003	3701	3270	2864	2236	1799	1324	957	760	550
<b>1.70V</b>	5100	4198	3844	3577	3170	2783	2198	1774	1312	951	757	548
<b>1.75V</b>	4586	3834	3562	3355	2943	2617	2097	1708	1280	933	746	544
<b>1.80V</b>	4067	3454	3277	3047	2671	2411	1936	1601	1225	900	723	531
<b>1.85V</b>	3329	3038	2803	2625	2366	2184	1726	1453	1141	843	680	503

### XHRL12410W / XHRL12410WG

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	615	512	469	431	369	319	238	189	136	97.1	76.4	54.6
<b>1.65V</b>	570	477	439	408	349	307	232	185	134	96.1	75.8	54.3
<b>1.67V</b>	552	463	427	399	341	302	229	183	133	95.7	75.6	54.2
<b>1.70V</b>	522	439	409	378	328	291	223	179	132	94.8	75.0	54.0
<b>1.75V</b>	469	402	370	343	304	269	212	171	128	92.5	73.6	53.3
<b>1.80V</b>	402	349	326	309	272	242	195	160	121	88.3	70.8	51.9
<b>1.85V</b>	311	300	283	263	233	213	171	142	110	81.6	65.9	48.8

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	6081	5070	4746	4341	3771	3322	2571	2112	1600	1136	890	632
<b>1.65V</b>	5738	4873	4484	4139	3648	3210	2523	2081	1586	1127	885	629
<b>1.67V</b>	5600	4794	4379	4058	3599	3166	2504	2068	1580	1124	883	628
<b>1.70V</b>	5337	4580	4205	3922	3480	3078	2462	2040	1565	1116	878	626
<b>1.75V</b>	4887	4179	3899	3684	3242	2901	2362	1972	1529	1095	865	620
<b>1.80V</b>	4307	3763	3603	3348	2958	2687	2207	1863	1468	1058	839	605
<b>1.85V</b>	3660	3284	3059	2887	2635	2454	2002	1711	1372	993	790	572



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### XHRL12475W

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	768	601	559	501	422	365	270	215	156	110	85.7	60.4
<b>1.65V</b>	707	566	520	472	406	352	264	211	154	109	85.1	60.1
<b>1.67V</b>	683	552	504	461	399	347	261	210	154	109	84.8	59.9
<b>1.70V</b>	647	519	479	441	387	336	256	206	152	108	84.2	59.6
<b>1.75V</b>	587	464	437	409	357	314	243	197	148	105	82.6	58.9
<b>1.80V</b>	500	411	397	370	322	288	225	185	140	101	79.7	57.2
<b>1.85V</b>	403	364	341	319	283	252	203	168	129	93.5	74.4	53.9

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	7700	6127	5630	5143	4414	3859	2940	2368	1746	1250	985	705
<b>1.65V</b>	7258	5863	5380	4931	4284	3745	2889	2336	1731	1241	980	702
<b>1.67V</b>	7081	5758	5281	4846	4232	3700	2869	2323	1725	1238	978	701
<b>1.70V</b>	6811	5582	5081	4690	4122	3604	2824	2294	1711	1230	973	699
<b>1.75V</b>	6181	5133	4715	4399	3849	3403	2707	2216	1671	1208	959	693
<b>1.80V</b>	5589	4619	4317	4041	3513	3150	2524	2092	1605	1168	932	678
<b>1.85V</b>	4632	4129	3776	3509	3127	2859	2276	1916	1503	1099	880	644

### XHRL12500W

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	780	620	564	509	428	367	272	214	153	108	84.4	59.5
<b>1.65V</b>	723	582	527	483	409	355	266	211	152	107	83.7	59.1
<b>1.67V</b>	700	567	512	472	401	350	264	210	151	107	83.5	58.9
<b>1.70V</b>	661	536	490	454	386	340	259	206	150	106	82.9	58.6
<b>1.75V</b>	592	486	449	412	359	317	247	199	146	104	81.7	58.1
<b>1.80V</b>	514	434	397	369	324	288	231	187	139	100	79.3	57.1
<b>1.85V</b>	444	369	348	323	283	255	204	168	128	93.2	74.3	54.0

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	7739	6297	5777	5353	4610	4000	3086	2464	1794	1278	1005	717
<b>1.65V</b>	7295	6021	5560	5142	4444	3889	3037	2433	1780	1270	1000	714
<b>1.67V</b>	7118	5911	5473	5057	4377	3845	3017	2420	1774	1267	998	713
<b>1.70V</b>	6831	5714	5296	4906	4247	3753	2967	2389	1760	1259	993	710
<b>1.75V</b>	6352	5357	4941	4605	3986	3565	2847	2311	1722	1238	980	705
<b>1.80V</b>	5765	4877	4516	4169	3676	3334	2677	2191	1652	1198	953	691
<b>1.85V</b>	5054	4256	3933	3688	3332	3056	2454	2022	1539	1126	902	660



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### XHRL12620W

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	766	641	601	571	504	458	349	283	206	147	116	81.7
<b>1.65V</b>	690	601	560	528	477	431	333	276	202	145	114	80.3
<b>1.67V</b>	660	585	543	511	466	420	326	273	200	144	114	79.8
<b>1.70V</b>	622	545	512	486	448	398	315	267	196	142	113	78.3
<b>1.75V</b>	553	485	465	449	398	356	293	252	188	138	110	78.2
<b>1.80V</b>	494	443	409	383	344	315	270	229	175	131	106	75.6
<b>1.85V</b>	437	360	339	322	298	280	239	201	158	120	97.9	71.1

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	7070	6088	5774	5529	5280	4692	3770	3108	2304	1681	1344	966
<b>1.65V</b>	6619	5797	5608	5460	5004	4474	3734	3019	2265	1662	1334	961
<b>1.67V</b>	6439	5680	5542	5432	4894	4387	3720	2983	2249	1654	1329	959
<b>1.70V</b>	6090	5494	5406	5336	4692	4262	3540	2918	2222	1642	1325	957
<b>1.75V</b>	5579	5208	4994	4825	4311	3969	3282	2742	2135	1592	1293	944
<b>1.80V</b>	5235	4660	4427	4246	3894	3639	2956	2515	2017	1522	1247	916
<b>1.85V</b>	4134	3765	3715	3674	3470	3120	2576	2257	1864	1414	1163	867

### XHRL12650W

#### Constant Current Discharge Characteristics Unit: Amperes (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	820	691	646	603	541	476	369	289	205	146	115	81.7
<b>1.65V</b>	690	601	560	528	477	431	333	276	202	145	114	80.3
<b>1.67V</b>	725	622	583	552	490	442	349	277	200	144	113	81.3
<b>1.70V</b>	687	589	556	527	467	425	338	270	197	142	112	81.1
<b>1.75V</b>	607	540	503	473	428	393	315	255	190	139	111	80.5
<b>1.80V</b>	538	465	440	422	384	347	288	237	181	133	107	79.1
<b>1.85V</b>	417	405	384	360	325	300	253	213	167	124	101	75.0

#### Constant Power Discharge Characteristics Unit: Watts (25°C, 77°F)

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
<b>1.60V</b>	8440	7255	6774	6349	5650	5092	4039	3261	2422	1762	1392	1003
<b>1.65V</b>	8011	6898	6456	6071	5444	4942	3947	3202	2394	1746	1383	999
<b>1.67V</b>	7840	6754	6329	5959	5361	4882	3911	3179	2383	1740	1379	997
<b>1.70V</b>	7552	6512	6094	5774	5196	4783	3829	3124	2353	1724	1369	993
<b>1.75V</b>	6857	6011	5718	5408	4894	4459	3623	2984	2278	1681	1342	981
<b>1.80V</b>	6077	5461	5155	4917	4482	4083	3322	2776	2163	1612	1295	956
<b>1.85V</b>	5221	4792	4604	4343	3961	3639	2942	2505	2006	1507	1219	907