

Hitachi Chemical
HITACHI



High Rate Long Life
ENERGY OF INFINITY ►

HRL series

BATTERY
CS3



 **Hitachi Chemical Energy Technology Co., Ltd.**

HRL series

HRL-series batteries are specially designed for both high rate discharge applications and long design life.

With VRLA technology, they are small, lightweight and offer a service life of up to 8~10 years in standby service life.

Because of its innovative design, HRL-series batteries feature 20% greater power density in the standard footprint.

As with all our ISO/UL certified batteries, HRL series batteries are rechargeable, efficient, maintenance-free, leakproof and viable in any orientation.



In accordance with IEC 61056-1/2:2012
or IEC 60896-21/22:2004

In accordance with BS6290-4

Features and Benefits :

- Up to 50% greater resistance to grid growth under optimal temperature
- Innovative plate structure greatly increases energy/density ratios
- Reduced internal resistance for superior performance
- Increased current delivery for high-rate discharge
- Uniformed plate formation for consistent capacity
- Viable in any orientation
- No-spill design
- Maintenance free

Long Service Life :

- With nominal capacity less than 80w, the series battery is up to 8 years of service life in floating charge conditions at 25°C(77°F).
- With nominal capacity greater than 110w, the series battery is up to 10 years of service life in floating charge conditions at 25°C(77°F).

Reliability :

- Our batteries are 100% 2-cycle tested by computer charge and discharge System (CCDS).
- Our batteries are UL-recognized components under UL 1989. (File Number with MH 14533)
- ISO 9001/14001/18001 certified.

Applications :

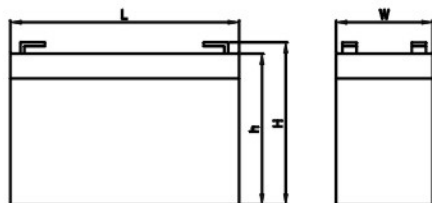
Standby use

- UPS power supply
- Workstation UPS
- Emergency lighting equipment
- Precision instrument backup power
- Fire alarm and security systems
- Communications and electrical equipment
- Office computers, microcomputers and OA equipment
- Robots, control equipment and other FA equipment
- Emergency power supply in power plants and substations

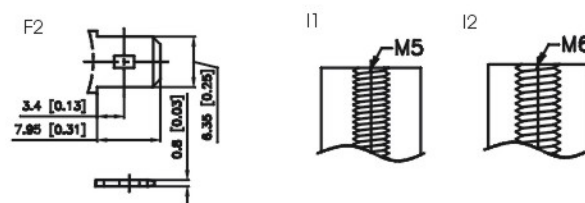
Solar Cell Power Generation

- Street lighting
- Portable power supply
- Water pumping
- Rural power systems

Battery Profile

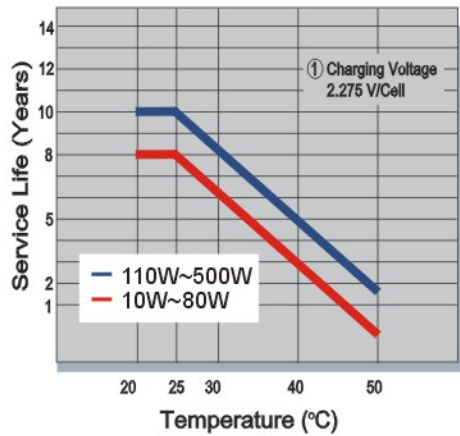


Terminal Type

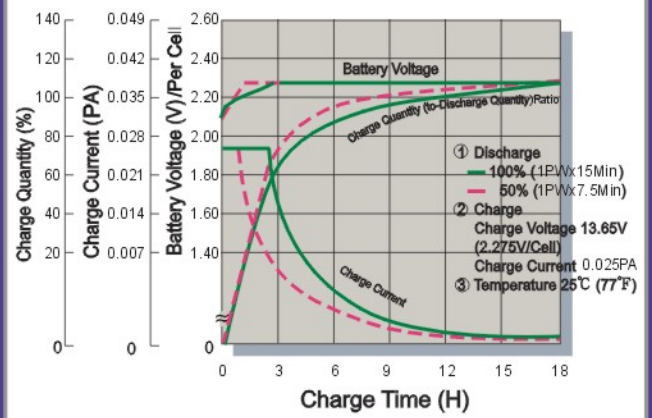


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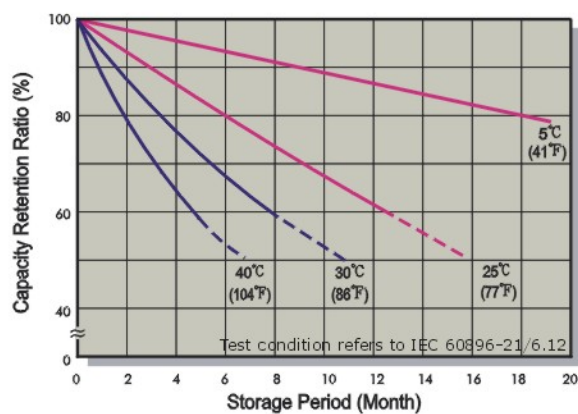
Expected Life vs. Operating Temperature



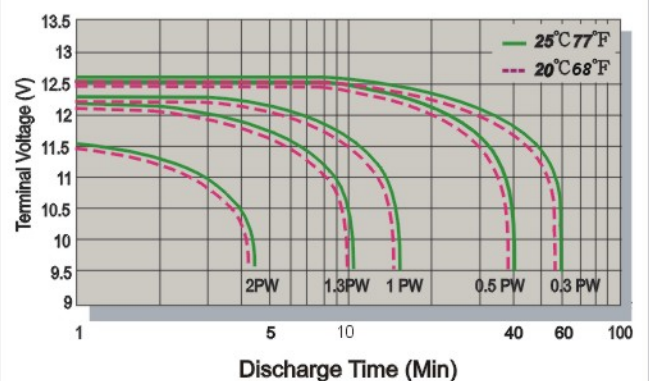
Battery Voltage and Charge Time for Standby Use



Capacity Retention Characteristic



Discharge Characteristics



- The above diagrams are typical. For more detailed information please see the specific product sheets.
- P is the capacity of 15 minute-rate while the final voltage is 1.67V per cell.
For example, 1PW discharge power of HRL1210W is: $1 \times 10 \times 6 = 60$ (W/battery)
For example, 0.1PA charge current of HRL1210W is: $0.1 \times 10 = 1.0$ (A)

Specifications

Battery Type	Nominal Voltage (V)	Nominal Capacity (W/cell)*	Weight (Approx. Kg)	Internal Resistance Approx. (mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Length (L)	Width (W)				Kgf·cm/ lbf·in	N·m
HRL634W	6	34	1.32	8.30	380	130	98.6±1.5	94.3±1.0	150.9±2.0	340±1.0	F2	Faston Tab 250	3.4	--	--
HRL1210W	12	10	1.10	32.10	120	40	70.5±1.0	64.3±1.0	178.0±2.0	340±1.0	F2	Faston Tab 250	1.0	--	--
HRL1223W	12	23	2.10	19.90	227	130	105.6±1.5	101.8±1.5	90.0±1.0	70.0±1.0	F2	Faston Tab 250	2.3	--	--
HRL1225W	12	25	1.95	19.00	328	130	105.6±1.5	101.8±1.5	90.0±1.0	70.0±1.0	F2	Faston Tab 250	2.5	--	--
HRL1234W	12	34	2.70	17.0	367	130	98.6±1.0	94.3±1.0	150.9±2.0	64.8±1.0	F2	Faston Tab 250	3.4	--	--
HRL1280W	12	80	6.80	9.40	776	300	167.0±2.0	167.0±2.0	181.0±2.0	76.2±1.0	I1	M5	8.0	59.0/51.0	5.73
HRL12110W	12	110	9.90	8.10	884	225	175.0±2.0	175.0±2.0	166.0±2.0	125.0±1.5	I1	M5	11.0	59.0/51.0	5.73
HRL12150W	12	155	11.75	7.30	1116	225	172.0±2.0	172.0±2.0	165.6±2.0	130.0±1.5	I2	M6	15.0	138.6/120.3	13.58
HRL12200W	12	215	17.30	5.50	1509	300	206.3±2.5	201.3±2.5	228.0±2.5	138.4±1.5	I2	M6	20.0	138.6/120.3	13.58
HRL12280W	12	280	25.80	3.50	2576	800	213.5±2.5	210.5±2.5	261.0±2.5	168.5±2.0	I2	M6	28.0	138.6/120.3	13.58
HRL12330W	12	350	29.60	3.50	2386	800	213.6±2.5	210.6±2.5	308.7±2.5	169.0±2.0	I2	M6	33.0	138.6/120.3	13.58
HRL12390W	12	410	33.00	3.00	2779	800	216.9±2.5	213.9±2.5	343.0±2.5	170.0±2.0	I2	M6	39.0	138.6/120.3	13.58
HRL12540W	12	540	48.90	2.60	3523	800	275.7±2.5	273.2±2.5	343.0±2.5	170.0±2.0	I2	M6	54.0	138.6/120.3	13.58

- * Nominal Capacity 15 min-rate to 1.67V per cell @25°C (77°F)
- Float Charge: 2.275±0.025 V/Cell at 25°C (77°F); Temp. Coefficient: -3.3mV/°C

HRL634W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	60.4	47.4	41.7	37.6	30.9	26.6	18.7	14.4	10.3	7.39	5.84	4.66
1.67V	56.5	44.4	39.2	35.4	29.3	25.2	18.6	14.3	10.2	7.33	5.80	4.63
1.70V	54.9	43.1	37.9	34.2	28.6	24.6	18.5	14.2	10.1	7.29	5.78	4.62
1.75V	51.9	40.7	35.8	32.3	27.0	23.8	18.3	14.1	10.0	7.23	5.74	4.57
1.80V	48.9	37.9	33.7	30.6	25.8	23.0	18.1	13.9	9.94	7.17	5.69	4.52
1.85V	45.4	35.1	31.4	28.6	24.6	22.0	17.9	13.8	9.84	7.11	5.65	4.47

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	327	260	231	209	175	150	110	84.0	60.7	43.7	34.6	27.7
1.67V	312	246	218	197	167	143	109	82.6	60.3	43.5	34.5	27.6
1.70V	305	240	212	192	163	140	108	82.0	59.7	43.2	34.4	27.5
1.75V	292	228	202	183	155	135	104	81.0	59.3	43.0	34.2	27.3
1.80V	278	215	191	173	147	129	100	80.0	58.9	42.6	33.9	27.1
1.85V	265	203	181	164	139	123	96.0	79.0	58.1	42.2	33.7	26.9

HRL1210W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	19.2	13.7	11.8	10.5	8.84	7.47	5.51	4.24	3.06	2.14	1.66	1.29
1.67V	18.3	13.3	11.5	10.2	8.70	7.37	5.43	4.20	3.03	2.12	1.64	1.28
1.70V	17.9	13.0	11.3	10.1	8.64	7.32	5.39	4.18	3.02	2.11	1.63	1.27
1.75V	17.1	12.5	11.0	9.85	8.37	7.15	5.27	4.10	2.98	2.09	1.62	1.26
1.80V	16.3	11.8	10.5	9.50	8.10	6.98	5.14	4.02	2.93	2.06	1.60	1.25
1.85V	15.6	11.1	10.0	9.15	7.83	6.81	5.02	3.94	2.89	2.04	1.59	1.24

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	200	147	127	113	95.6	81.5	60.9	47.0	34.1	24.0	18.7	14.7
1.67V	193	143	124	110	94.0	80.5	60.0	46.5	34.0	23.9	18.6	14.6
1.70V	189	140	121	108	92.9	79.8	59.3	46.3	33.9	23.8	18.5	14.5
1.75V	182	134	118	106	91.0	78.9	58.5	46.0	33.5	23.6	18.4	14.4
1.80V	175	128	114	103	89.1	77.3	57.2	45.2	33.0	23.3	18.2	14.3
1.85V	169	121	109	100	86.6	75.8	55.8	44.5	32.6	23.1	18.1	14.2

HRL1223W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	50.7	32.9	28.3	25.0	20.3	17.5	12.9	10.3	7.42	5.33	4.22	3.01
1.67V	46.7	31.4	27.2	24.2	20.0	17.3	12.8	10.2	7.35	5.28	4.18	2.99
1.70V	43.8	30.6	26.6	23.8	19.7	17.0	12.6	10.1	7.29	5.26	4.17	2.98
1.75V	39.7	28.4	25.0	22.6	19.1	16.5	12.3	10.0	7.22	5.21	4.14	2.94
1.80V	35.2	26.0	23.2	21.2	17.9	15.7	11.8	9.61	7.04	5.09	4.05	2.92
1.85V	30.6	22.8	20.7	19.1	16.2	14.3	11.0	8.99	6.58	4.81	3.85	2.78

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	497	337	295	264	221	192	141	114	84.4	62.0	49.8	36.5
1.67V	464	326	287	259	219	190	140	113	84.0	61.6	49.5	36.2
1.70V	445	317	283	258	217	188	139	112	83.6	61.3	49.2	36.0
1.75V	410	301	270	247	209	182	137	111	82.8	60.9	49.0	35.9
1.80V	373	278	252	233	199	175	133	109	80.8	59.7	48.1	35.3
1.85V	323	252	229	212	183	162	124	102	76.6	57.1	46.4	34.3

HRL1234W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	77.1	50.2	43.1	37.9	30.7	25.9	18.8	14.8	10.7	7.59	5.97	4.26
1.67V	69.6	48.0	41.7	36.9	30.2	25.6	18.6	14.7	10.6	7.56	5.95	4.25
1.70V	66.0	46.6	40.8	36.2	29.7	25.4	18.5	14.6	10.5	7.55	5.94	4.24
1.75V	60.0	43.6	38.5	34.6	28.7	24.6	18.2	14.4	10.4	7.48	5.90	4.22
1.80V	53.2	39.8	35.5	32.3	27.0	23.4	17.5	14.0	10.2	7.32	5.79	4.16
1.85V	45.8	35.3	31.9	29.0	24.8	21.4	16.4	13.2	9.69	6.99	5.55	4.00

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	754	530	464	412	339	290	215	171	125	89.4	70.9	51.1
1.67V	699	514	452	404	334	287	213	170	124	89.2	70.7	51.0
1.70V	689	503	443	398	330	284	212	169	123	89.0	70.6	50.9
1.75V	639	477	424	383	321	278	209	167	122	88.3	70.2	50.7
1.80V	582	441	397	359	306	266	203	163	120	86.8	69.1	50.1
1.85V	515	400	359	329	283	247	191	155	115	83.4	66.6	48.5

HRL1280W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	165	113	98.4	87.9	72.3	62.4	44.4	35.0	24.9	18.2	14.6	10.6
1.67V	142	103	90.7	81.7	69.5	58.7	43.5	34.0	24.6	18.0	14.4	10.4
1.70V	133	98.6	88.3	80.7	67.8	58.1	42.4	33.7	24.3	17.7	14.2	10.2
1.75V	119	92.3	82.6	75.5	64.3	54.3	41.6	32.9	23.7	17.4	14.0	10.1
1.80V	105	83.2	75.7	70.0	60.8	51.8	39.8	32.1	23.0	16.9	13.6	10.0
1.85V	92.3	76.6	70.1	65.2	56.8	49.2	37.6	30.1	22.1	16.6	13.5	9.84

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	1584	1171	1047	955	790	691	496	391	282	209	169	122
1.67V	1431	1073	971	895	761	661	485	382	280	207	167	121
1.70V	1369	1045	953	884	743	660	475	381	275	204	165	118
1.75V	1270	983	897	832	708	626	468	370	270	200	161	117
1.80V	1173	909	836	781	679	593	453	364	266	197	159	116
1.85V	1091	855	786	734	641	561	426	346	257	192	156	115

HRL12110W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	170	145	129	118	97.5	81.6	61.4	48.0	33.6	25.7	21.3	14.9
1.67V	151	129	117	108	91.1	77.5	59.6	47.0	33.2	25.3	20.8	14.7
1.70V	141	121	111	103	88.3	75.7	58.6	46.3	32.7	24.8	20.4	14.5
1.75V	125	108	99.6	93.2	82.7	72.2	56.1	44.7	32.3	24.4	20.0	14.4
1.80V	109	94.0	88.2	83.7	76.4	68.7	53.7	42.5	31.9	24.0	19.6	14.2
1.85V	89.3	78.7	75.9	73.6	69.2	64.4	51.0	40.8	29.7	22.4	18.3	14.0

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	1806	1541	1385	1270	1053	888	682	554	385	297	247	174
1.67V	1624	1386	1263	1171	988	852	665	535	377	292	243	173
1.70V	1530	1316	1197	1107	956	827	655	526	372	287	239	171
1.75V	1358	1190	1093	1020	900	796	636	510	361	280	234	170
1.80V	1177	1054	990	941	851	764	610	495	352	274	229	168
1.85V	995	918	882	854	793	733	589	478	337	260	217	167

HRL12150W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	--	--	169	153	127	116	86.7	69.6	50.4	36.4	28.9	20.8
1.67V	--	--	152	139	116	107	82.2	66.3	48.4	35.3	28.6	20.5
1.70V	--	--	144	132	112	103	80.0	64.7	47.5	34.8	28.4	20.4
1.75V	--	--	132	122	104	96.8	76.0	62.0	45.7	33.6	27.8	20.0
1.80V	--	--	119	111	96.2	90.0	71.1	58.4	43.8	32.2	26.8	19.5
1.85V	--	--	107	100	88.0	82.8	67.0	55.1	41.7	30.9	25.0	18.6

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	--	--	1794	1636	1373	1263	968	788	577	421	335	244
1.67V	--	--	1624	1494	1275	1182	935	753	559	415	334	239
1.70V	--	--	1549	1430	1228	1143	916	737	548	409	332	236
1.75V	--	--	1422	1321	1149	1075	877	704	530	399	325	231
1.80V	--	--	1302	1217	1069	1006	825	675	507	383	314	226
1.85V	--	--	1188	1118	996	943	773	639	486	364	296	222

HRL12200W**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	304	256	243	221	190	164	123	98.9	71.9	52.6	41.8	29.9
1.67V	279	232	218	205	177	157	118	97.0	71.2	52.0	41.2	29.5
1.70V	260	218	209	196	170	151	116	95.7	70.3	51.8	41.1	29.4
1.75V	233	197	192	176	156	141	111	92.0	68.2	50.7	40.3	29.1
1.80V	198	172	165	156	140	126	102	85.2	64.6	48.7	38.9	28.2
1.85V	162	146	145	136	120	110	91.3	76.1	59.0	45.3	36.2	26.6

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	3094	2572	2448	2279	1962	1745	1333	1098	816	602	476	343
1.67V	2861	2395	2306	2127	1874	1666	1308	1083	809	600	475	342
1.70V	2732	2308	2207	2045	1815	1625	1282	1066	796	596	474	339
1.75V	2458	2120	2022	1904	1717	1523	1232	1027	772	585	464	335
1.80V	2231	1889	1840	1765	1562	1409	1158	959	738	564	452	326
1.85V	1764	1691	1659	1544	1376	1255	1035	873	687	529	423	310

HRL12280W												
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	--	--	318	287	237	216	167	137	103	76.0	59.9	44.6
1.67V	--	--	283	258	217	200	155	128	98.3	72.9	57.7	42.1
1.70V	--	--	266	244	207	192	149	124	96.3	71.2	55.6	40.6
1.75V	--	--	236	218	188	175	141	117	91.3	68.5	53.8	38.5
1.80V	--	--	207	194	171	161	131	111	85.4	63.7	50.1	36.3
1.85V	--	--	178	169	152	145	122	105	81.3	59.7	47.3	34.7
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	--	--	3354	3039	2519	2304	1788	1476	1110	822	648	485
1.67V	--	--	3036	2778	2347	2166	1700	1417	1079	804	636	466
1.70V	--	--	2880	2650	2263	2100	1643	1384	1060	792	618	454
1.75V	--	--	2615	2422	2095	1955	1575	1326	1023	780	600	436
1.80V	--	--	2329	2176	1913	1800	1493	1274	980	738	581	422
1.85V	--	--	2016	1914	1735	1656	1408	1212	938	694	550	404

HRL12330W												
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	530	444	409	373	317	271	202	162	119	86.0	68.4	49.6
1.67V	482	405	369	341	293	256	196	158	117	85.1	67.9	49.4
1.70V	454	382	350	326	280	248	191	155	116	84.4	67.5	49.3
1.75V	405	340	317	293	257	230	181	149	112	82.6	66.4	48.9
1.80V	337	294	273	257	230	206	168	139	106	79.1	64.1	47.7
1.85V	252	243	234	219	196	180	150	125	97.1	73.2	59.9	45.1
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	4597	4083	3930	3730	3221	2870	2187	1772	1318	972	784	578
1.67V	4397	3951	3761	3474	3065	2737	2131	1738	1304	965	779	576
1.70V	4285	3878	3597	3345	2983	2656	2093	1713	1292	958	775	575
1.75V	4043	3550	3300	3109	2830	2485	2009	1656	1260	941	764	571
1.80V	3660	3143	2993	2862	2515	2276	1883	1564	1204	907	742	559
1.85V	2976	2795	2589	2432	2204	2042	1676	1416	1116	850	700	534

HRL12390W												
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	589	499	465	423	362	315	239	192	140	101	79.6	57.1
1.67V	532	456	416	386	334	298	230	186	138	99.6	78.9	56.8
1.70V	504	428	395	367	320	288	224	183	137	98.6	78.2	56.4
1.75V	463	384	354	330	296	266	212	174	132	96.1	76.7	55.7
1.80V	382	330	310	296	266	239	197	163	125	91.8	73.8	54.2
1.85V	296	285	270	253	228	210	175	147	114	84.9	68.8	51.2
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	5767	4830	4543	4188	3683	3299	2550	2083	1566	1142	913	666
1.67V	5312	4557	4197	3919	3518	3141	2483	2039	1545	1130	906	663
1.70V	5049	4348	4030	3787	3434	3048	2440	2010	1529	1122	900	660
1.75V	4583	3970	3736	3555	3190	2861	2348	1943	1488	1098	885	653
1.80V	4044	3587	3451	3253	2893	2641	2215	1843	1423	1059	858	639
1.85V	3486	3160	2959	2804	2576	2412	2006	1690	1328	996	812	609

HRL12540W												
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	720	572	530	498	436	394	308	256	187	134	106	75.5
1.67V	608	517	480	452	406	370	294	245	181	132	105	74.3
1.70V	564	493	457	430	392	354	286	240	178	129	103	73.8
1.75V	501	440	416	398	365	327	270	228	172	126	101	72.0
1.80V	430	391	375	362	323	296	252	209	161	120	97.9	70.3
1.85V	379	340	320	304	282	265	222	187	147	111	90.3	66.2
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
1.60V	6874	5883	5483	5176	4688	4186	3421	2716	2057	1518	1224	885
1.67V	6207	5325	5026	4794	4282	3885	3250	2630	2006	1492	1210	865
1.70V	5768	4937	4717	4544	4016	3661	3097	2564	1988	1480	1201	863
1.75V	5225	4639	4390	4196	3766	3472	2951	2454	1925	1441	1174	849
1.80V	4561	4310	4032	3818	3442	3233	2723	2306	1846	1385	1129	824
1.85V	4227	3643	3482	3356	3146	3010	2443	2104	1715	1295	1061	784

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com



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