

STARMAX

The world's leading battery brand



HRL SERIES-LONG LIFE **BATTERIES**

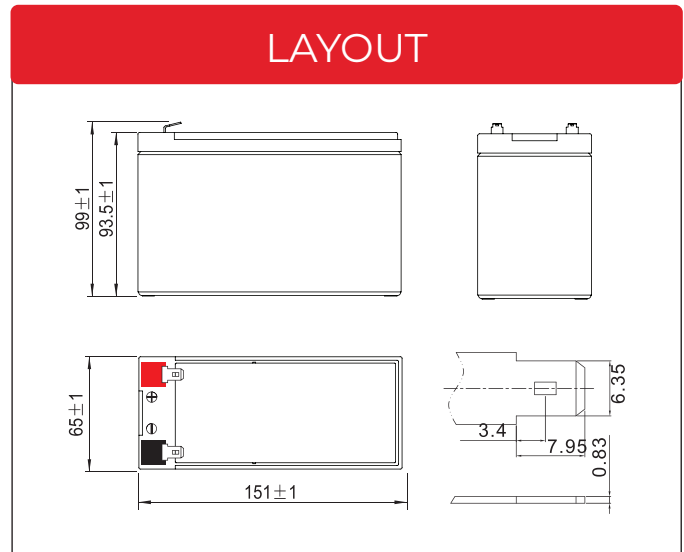
HRL 1226W



www.starmaxbatteries.com

HRL Series

HRL 1226W



General Features

- ✓ **High quality AGM separator:** Extend cycle life and prevent micro short circuit
- ✓ **PbCaSn alloy for plate grids:** Less gassing, less self-discharging
- ✓ **Unique vent valve design:** Reduce water losing and prevent air/spark going inside

Applications

- ✓ UPS
- ✓ Hospitals & Testing Laboratories
- ✓ Emergency Power Supply
- ✓ Industrial Process Control Facilities
- ✓ Banks & Financial Markets
- ✓ Data & Network Operation Centers

Standards

- ✓ Compliance with IEC 60896 standards
- ✓ Classified as "General Purpose" according to Eurobat
- ✓ CE, UL, IEC Cer tified
- ✓ Manufactured in Starmax, ISO 45001, ISO 9001 and ISO 14001 certified production facilities



SPECIFICATIONS

Rated Voltage	12V		
Nominal Rate	(W ₁₅ ,1.67V/cell)	26W	
Nominal Capacity	(C ₁₀ ,1.80V/cell)	6.5Ah	
Dimensions	Length	151±1mm (5.94 inches)	
	Width	65±1mm (2.56 inches)	
	Container height	93.5±1mm (3.68 inches)	
	Total height	99±1mm (3.90 inches)	
Approx. weight	2.08 Kg (4.54 lbs)		
Terminal	T1		
Container material	ABS: UL 94 HB or V-0		
Rated capacity (25°C)	6.51 Ah	(10hr, 0.651A,1.80V/cell)	
	6.38 Ah	(8hr, 0.798A,1.80V/cell)	
	6.00 Ah	(5hr, 1.20A,1.75V/cell)	
	5.52 Ah	(3hr, 1.84A,1.75V/cell)	
	4.49 Ah	(1hr,4.49A,1.67V/cell)	
Max. discharge current	90A		
Internal resistance (25°C)	Approx. 29mΩ		
Operating temp. range	Discharge	-20~55°C (4~131°F)	
	Charge	-20~40°C (-4~104°F)	
	Storage	-15~50°C (5~122°F)	
Nominal operating temp. range	25±3°C (77±5°F)		
Max.Charging Current(25°C)	1.75A		
Charge voltage(25°C)	Charge voltage		Temp. Coefficient
	Float	2.25~2.30V/cell	-3mV/cell/°C
	Equalization	2.30~2.40V/cell	-4mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)		106%
	25°C (77°F)		100%
	0°C (32°F)		86%
Self discharge	≤3%/month @ 25°C		

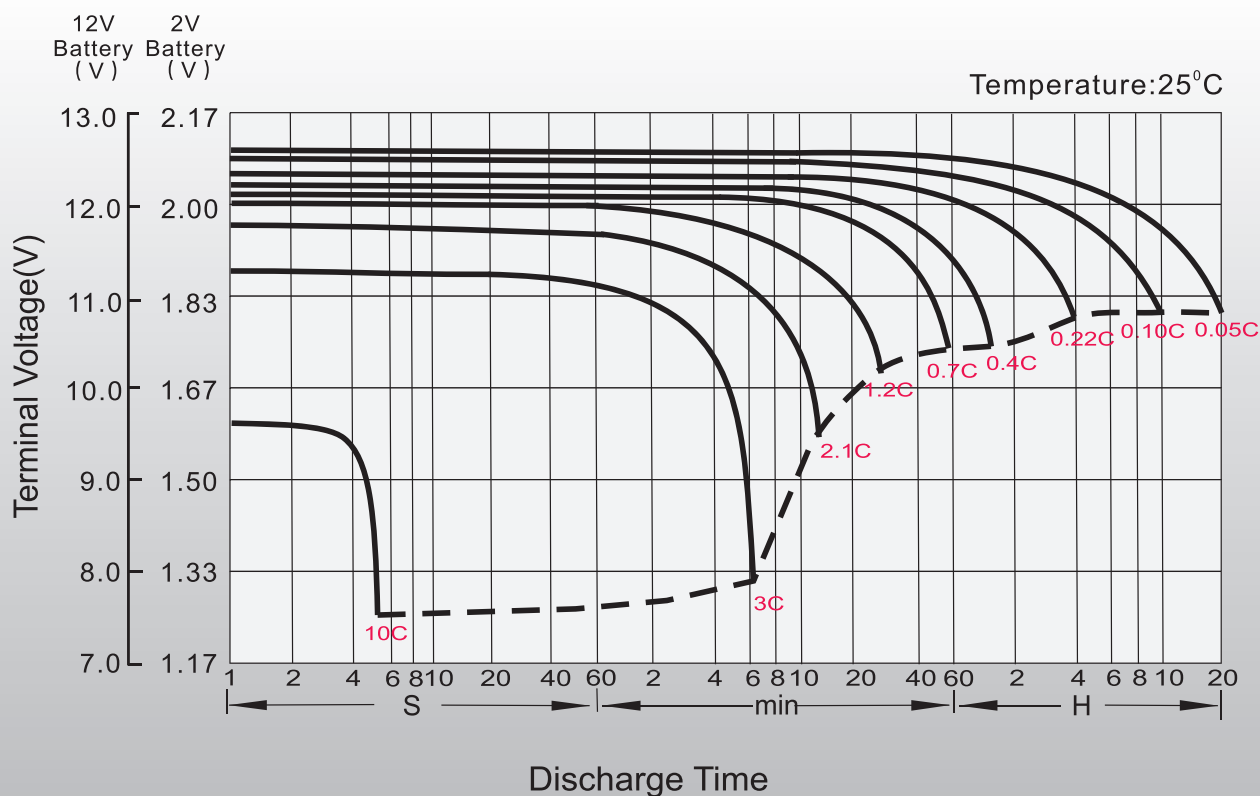
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	17.2	11.6	9.92	7.95	5.90	4.37	3.70	2.77	2.21	1.66	1.31	1.09	0.745	0.610
1.80V/cell	20.0	13.7	11.5	9.16	6.67	4.89	4.09	3.03	2.41	1.79	1.41	1.18	0.798	0.651
1.75V/cell	21.8	14.7	12.2	9.61	6.97	5.09	4.25	3.13	2.48	1.84	1.45	1.20	0.812	0.661
1.70V/cell	23.6	15.7	12.9	10.1	7.28	5.28	4.40	3.23	2.56	1.89	1.49	1.23	0.827	0.671
1.67V/cell	24.7	16.3	13.3	10.4	7.46	5.40	4.49	3.29	2.60	1.92	1.51	1.25	0.836	0.677
1.60V/cell	27.3	17.6	14.2	11.0	7.87	5.67	4.71	3.44	2.71	1.99	1.56	1.28	0.855	0.692

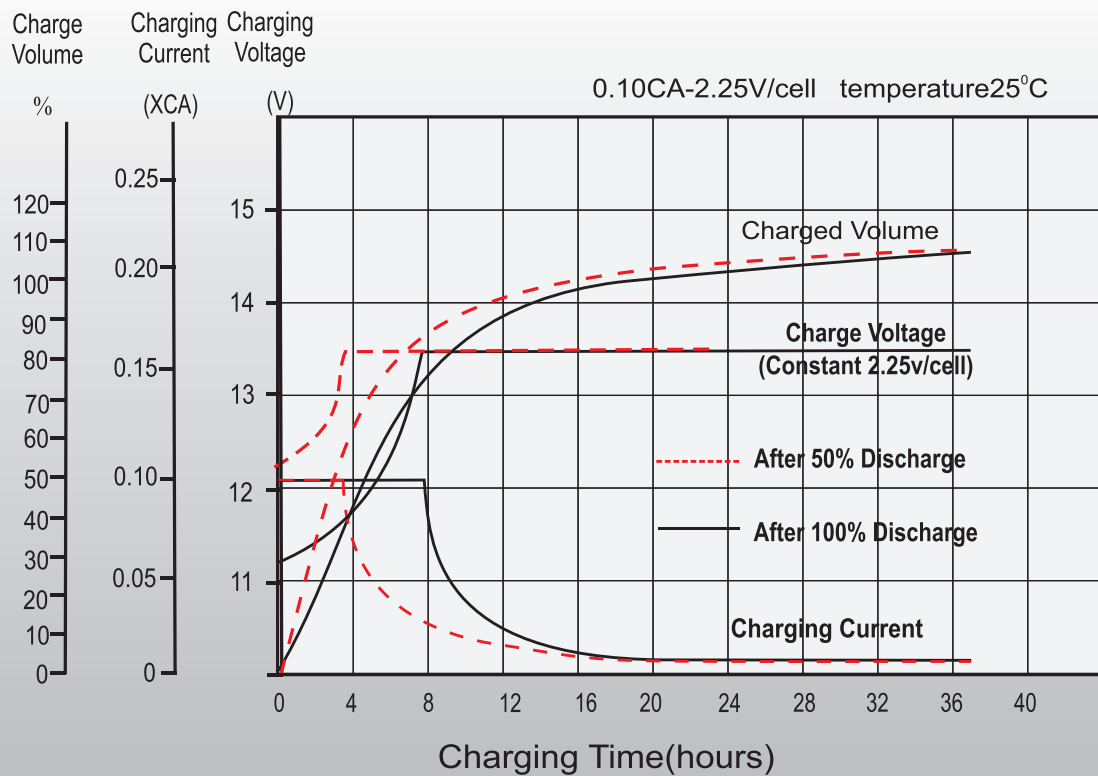
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	37.1	24.6	20.5	15.3	11.4	8.48	7.19	5.39	4.33	3.25	2.58	2.15	1.47	1.21
1.80V/cell	41.6	28.3	23.4	17.5	12.8	9.41	7.91	5.87	4.68	3.50	2.77	2.31	1.57	1.29
1.75V/cell	44.7	29.9	24.4	18.2	13.2	9.72	8.14	6.03	4.80	3.58	2.83	2.36	1.60	1.30
1.70V/cell	47.3	31.4	25.5	18.9	13.7	10.0	8.38	6.19	4.93	3.67	2.89	2.40	1.62	1.32
1.67V/cell	49.0	32.3	26.0	19.3	14.0	10.2	8.51	6.28	4.99	3.71	2.92	2.43	1.64	1.33
1.60V/cell	49.7	34.4	27.4	20.3	14.6	10.6	8.85	6.51	5.16	3.83	3.00	2.49	1.67	1.36

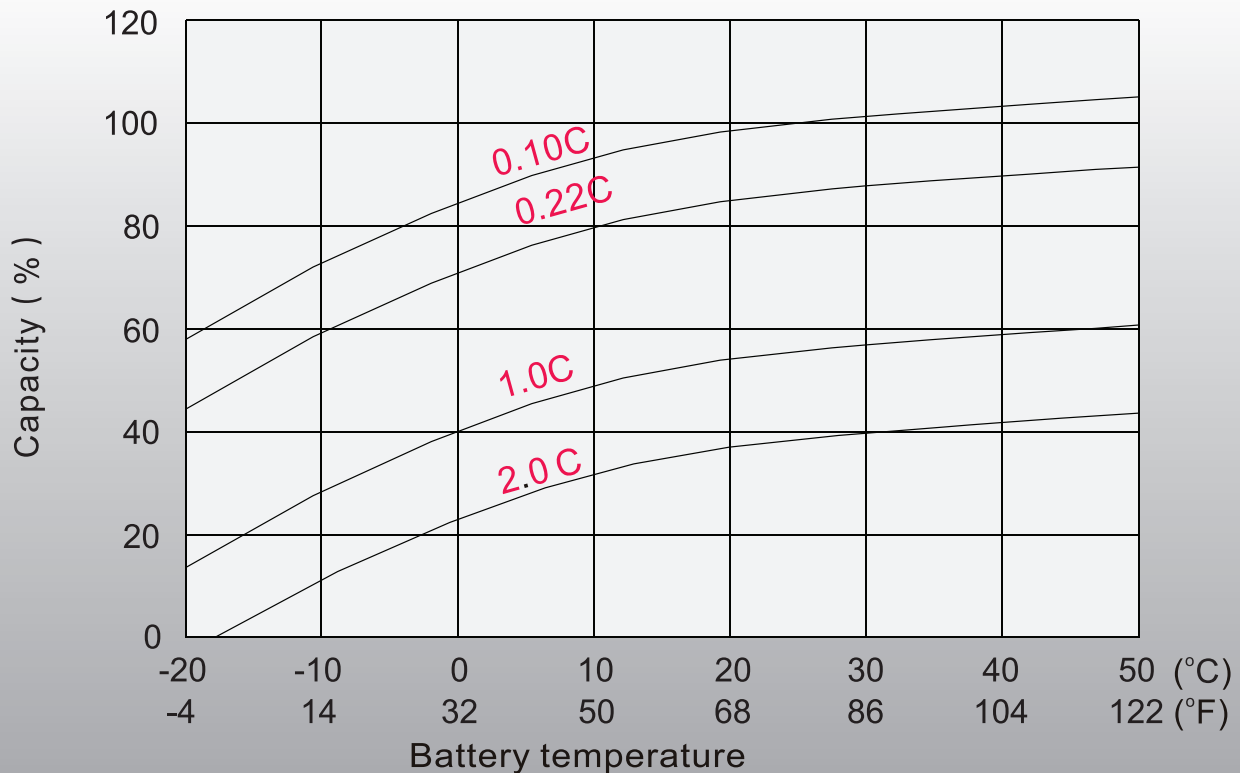
Discharge Characteristics



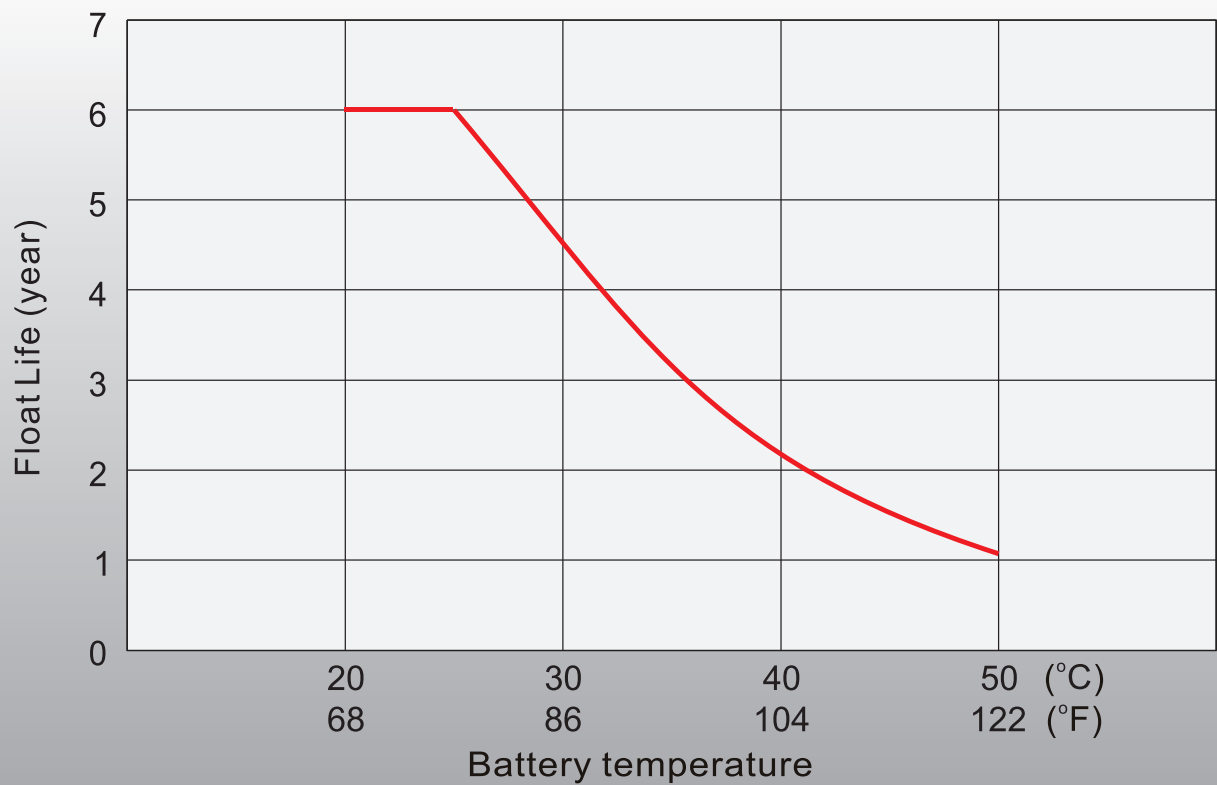
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Time Float Life





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