

stored energy solutions for a demanding world

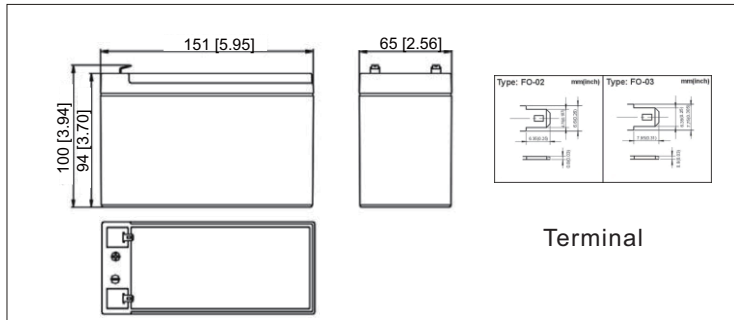


Model: 12HRL36

HRL Series

The 12HRL36 of VRLA battery with design life 8 years(25°C) is perfectly suited to any application which requires a high rate current over a short period. In particular they are ideal for UPS systems thanks to their optimized performance and a patented post seal design. Meanwhile with excellent uniform battery performance, long design life wide usage temperature range, HRL series are suit for high ambient temperature.

Dimensions—mm[inch]



Specifications

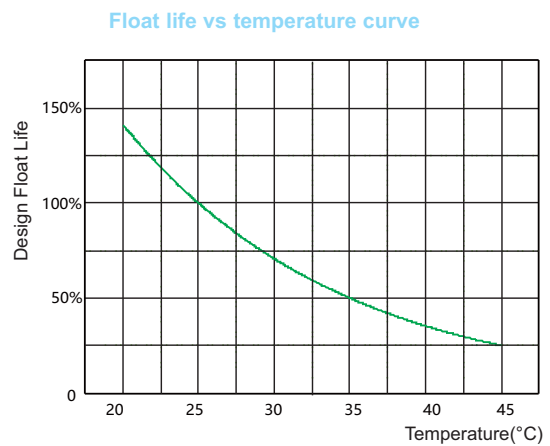
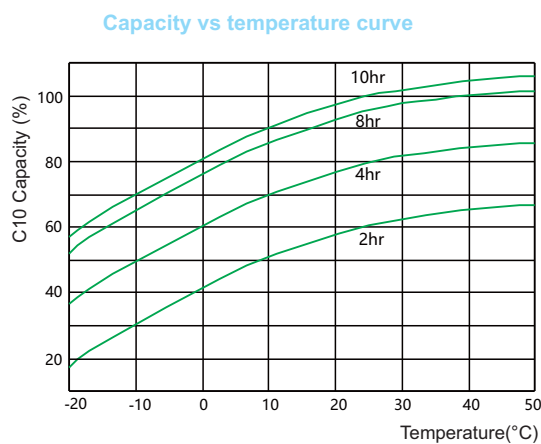
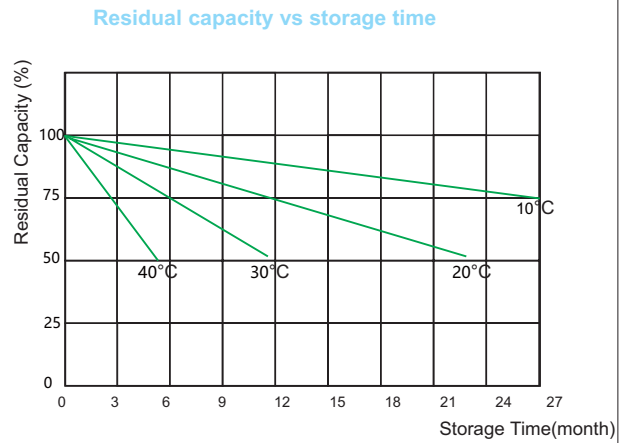
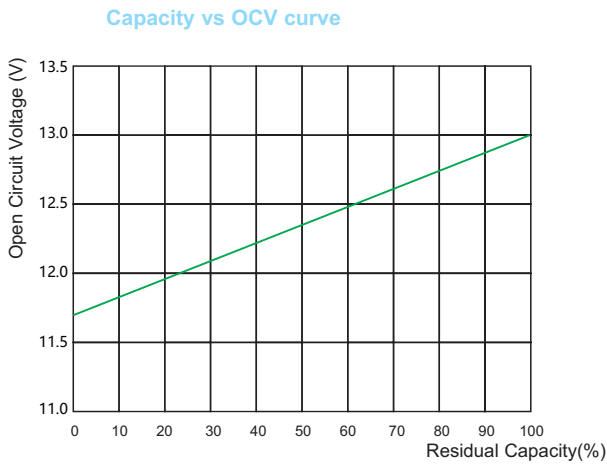
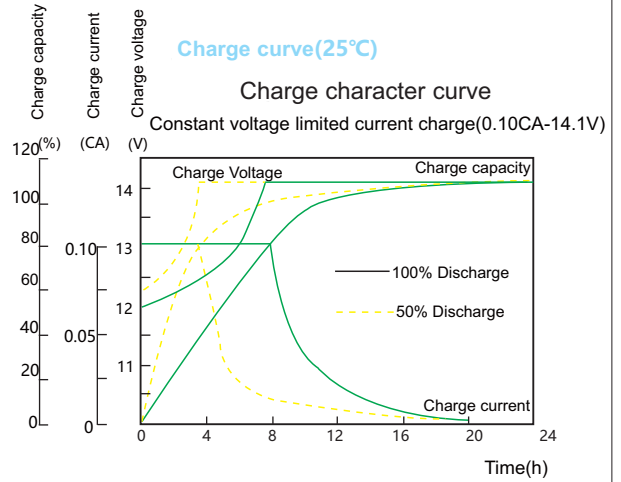
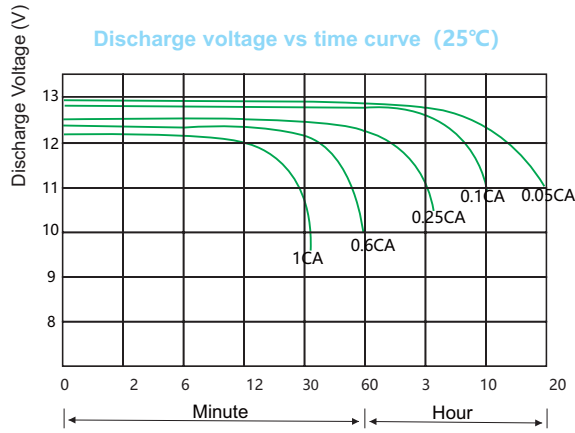
Battery Model	12HRL36
Nominal Voltage	12V
Rated Capacity	36 W/cell(15 minute rate, 1.67 V/cell) and 8Ah(20 hr to 1.75V/cell) @25°C(77°F)
Typical Weight	2.70kg
Internal Resistance	Approx 22mΩ
Temperature Ranges	Operation (maximum): -40°C to 55°C(-40°F to 131°F)
	Operation (recommended): 15°C to 25°C(59°F to 77°F)
	Storage: -20°C to 40°C(-4°F to 104°F)
Float Voltage	2.27V/cell@25°C(77°F)
Recommended Maximum Charging Current Limit	2.4A
Equalize and Cycle Service	2.35V~2.40V@25°C(77°F)
Self Discharge	The residual capacity is above 94% after 90 days storage(25°C/77°F)
Terminal	F0
Container Material	ABS

Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

End voltage per cell	5min	10min	15min	20min	30min	40min	50min	1h	2h
1.85V	58	39.4	30.5	24.71	18.79	14.95	12.61	11.03	6.23
1.83V	60	40.3	31.1	25.19	19.10	15.17	12.78	11.16	6.28
1.80V	63	42.2	32.4	26.09	19.67	15.58	13.09	11.40	6.37
1.75V	68	44.7	34.1	27.34	20.47	16.15	13.52	11.75	6.50
1.70V	72	46.8	35.4	28.31	21.07	16.57	13.84	12.00	6.62
1.65V	74	47.7	36.0	28.74	21.33	16.76	13.98	12.11	6.66
1.60V	77	49.1	36.8	29.26	21.61	16.96	14.14	12.24	6.73

Discharge Data with Constant Current Units: Amperes (25°C, 77°F)

End voltage per cell	5min	15min	30min	1h	2h	3h	4h	8h	10h
1.85V	31	15.9	9.6	5.55	3.12	2.20	1.75	0.89	0.72
1.83V	32	16.2	9.8	5.62	3.14	2.21	1.76	0.90	0.73
1.80V	34	16.8	10.0	5.74	3.19	2.24	1.78	0.91	0.74
1.75V	36	17.7	10.5	5.91	3.25	2.27	1.82	0.93	0.75
1.70V	38	18.4	10.8	6.03	3.31	2.31	1.83	0.94	0.76
1.65V	40	18.7	10.9	6.09	3.33	2.32	1.85	0.95	0.77
1.60V	41	19.1	11.0	6.15	3.36	2.35	1.87	0.95	0.77



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