

stored energy solutions for a demanding world

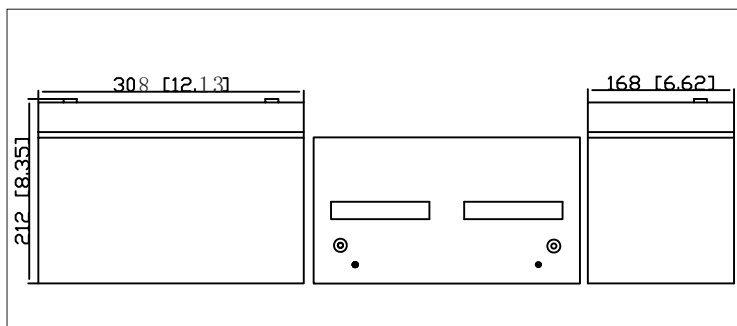
Narada

Model: **12HRL310**

HRL Series

The HRL range of VRLA batteries with design life 10 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 IDC and 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	12HRL310
Nominal Voltage	12V
Rated Capacity	310 Watts per cell at the 15 minute rate to 1.67 volts per cell @25°C(77°F)
Typical Weight	31.2kg
Internal Resistance	Approx 5.2mΩ
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	22.5A
Equalize and Cycle Service	2.35V~2.40V@25°C(77°F)
Self Discharge	The residual capacity is above 87% after 90 days storage(25°C/77°F)
Terminal	M6 Female
Terminal Hardware Torque	10 ± 1.0Nm
Container Material	ABS (V0 optional)

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
1.60V	659	474	324	300	323	166	136	116	68.5
1.67V	629	456	310	290	221	164	134	116	68.0
1.70V	617	444	303	280	218	162	132	115	67.6
1.75V	519	384	282	255	208	160	131	115	67.5
1.80V	454	356	267	243	197	160	131	113	67.0
1.83V	432	339	256	237	190	159	130	112	65.0
1.85V	390	316	243	230	184	159	130	111	64.0

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

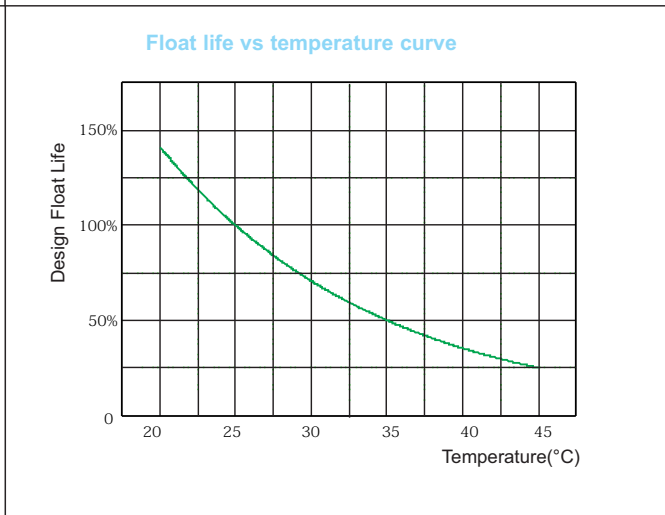
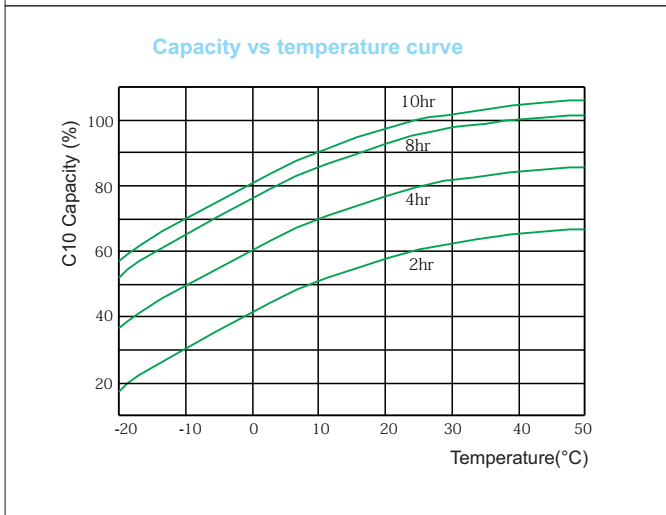
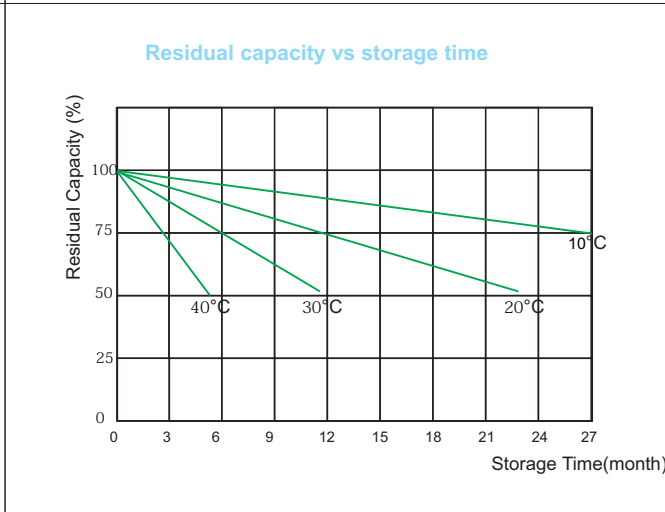
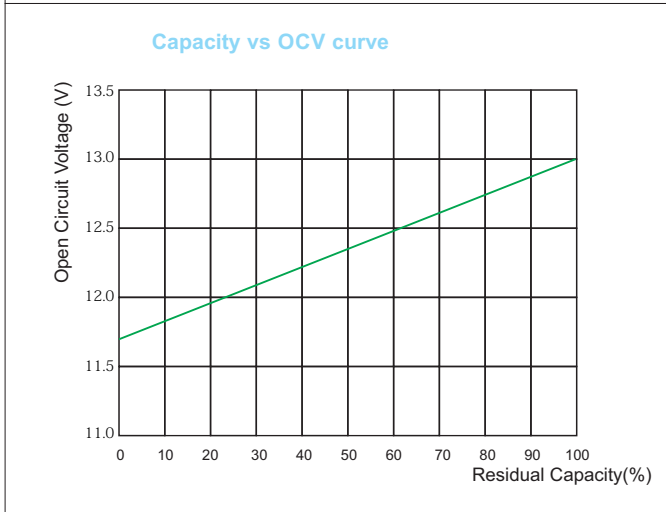
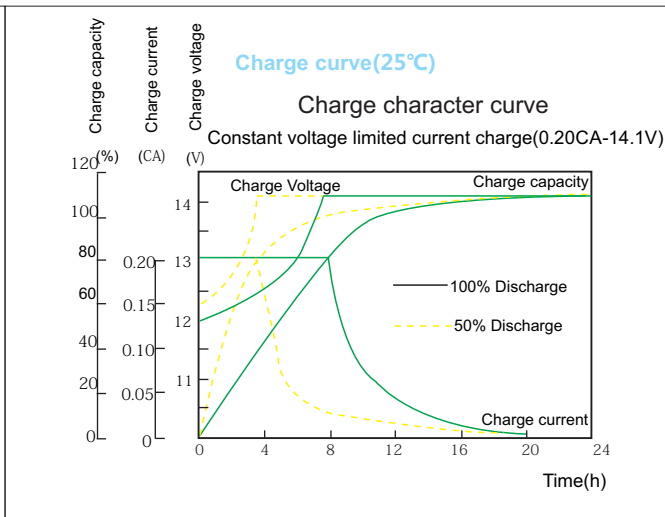
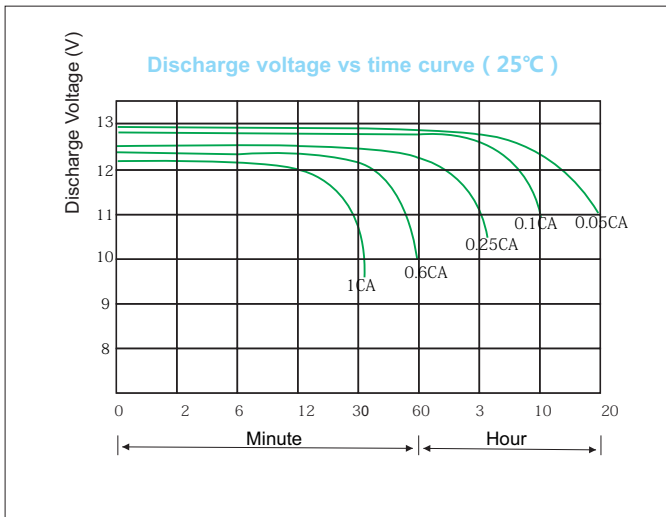
End voltage per cell	5min	15min	30min	1h	2h	3h	4h	6h	10h
1.60V	436	202	119	68.4	38.2	26.8	20.8	14.4	9.01
1.67V	403	196	118	67.8	37.9	26.6	20.6	14.3	8.95
1.70V	379	192	117	67.6	37.8	26.5	20.6	14.3	8.95
1.75V	329	182	114	66.8	37.4	26.3	20.4	14.1	8.88
1.80V	279	169	108	64.8	36.6	25.7	19.9	13.8	8.72
1.83V	253	158	104	62.6	35.7	25.2	19.6	13.6	8.57
1.85V	237	151	99.4	60.6	34.8	24.6	19.1	13.3	8.40

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