

stored energy solutions for a demanding world

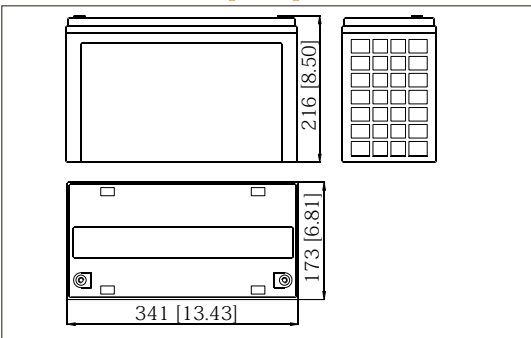
**Narada**

Model: **12HRL400**

**HRL Series**

The HRL range of VRLA batteries 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]**

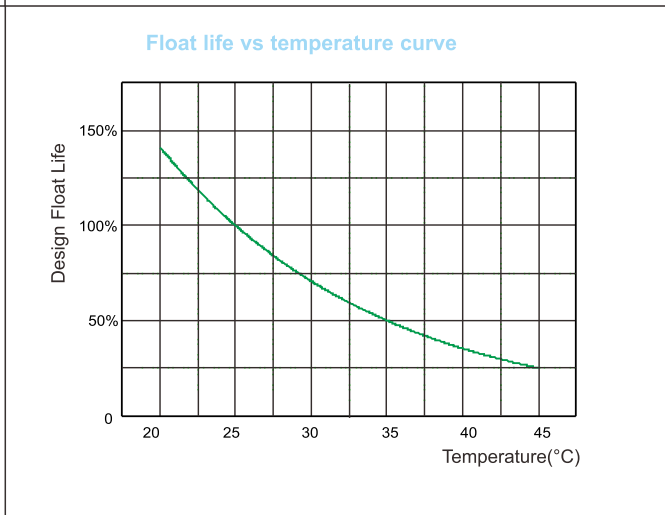
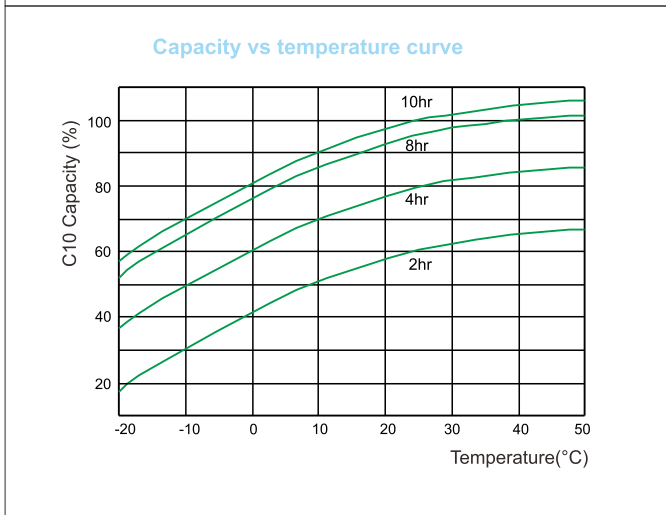
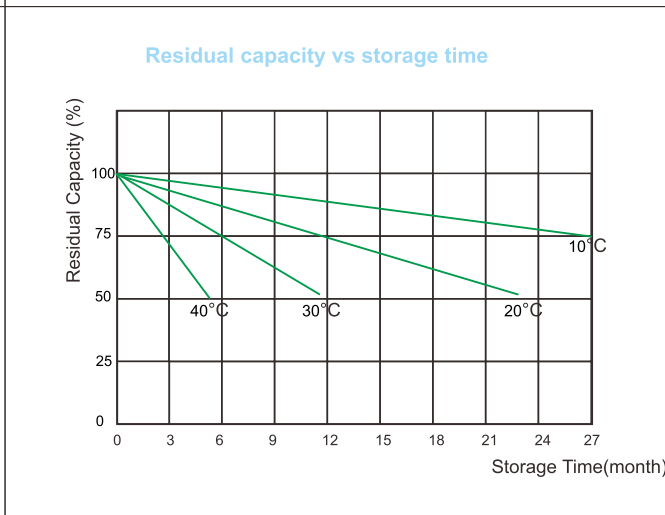
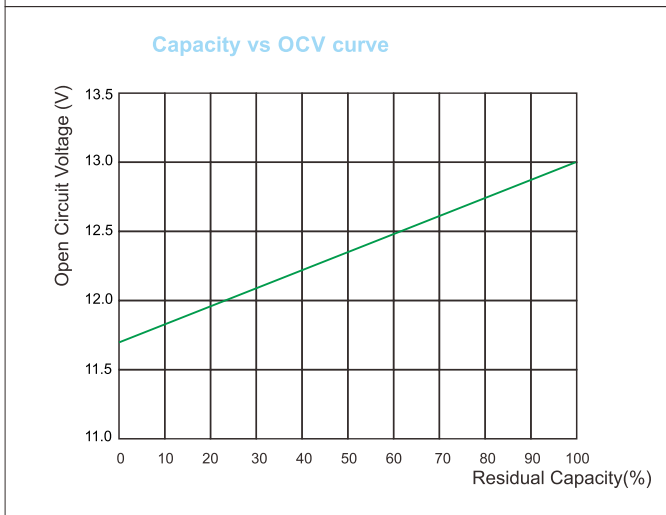
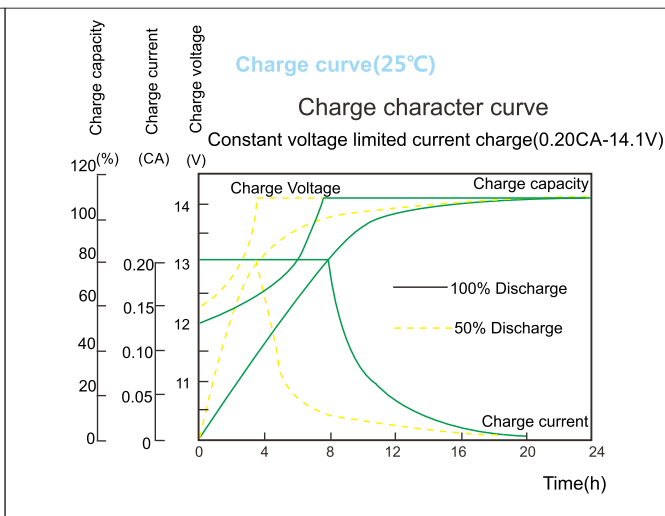
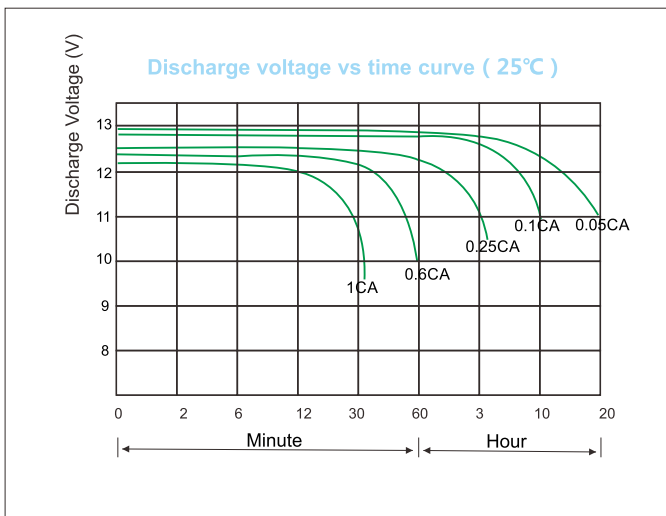


**Specifications**

Battery Model	12HRL400
Nominal Voltage	12V
Rated Capacity	400 Watts per cell at the 15 minute rate to 1.67 volts per cell @25°C(77°F)
Typical Weight	34kg
Internal Resistance	Approx 3.90mΩ
Temperature Ranges	Operation (maximum) : -40°C to 50°C(-40°F to 122°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	25A
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	M8 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	746	528	412	339	252	202	170	146	82.7
1.67V	706	508	400	332	249	201	169	146	82.6
1.70V	683	495	392	327	248	200	167	146	82.5
1.75V	632	466	375	316	243	198	166	145	82.4
1.80V	562	428	352	302	237	196	165	145	81.3
1.85V	490	388	326	283	225	187	160	140	77.7



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