

stored energy solutions for a demanding world

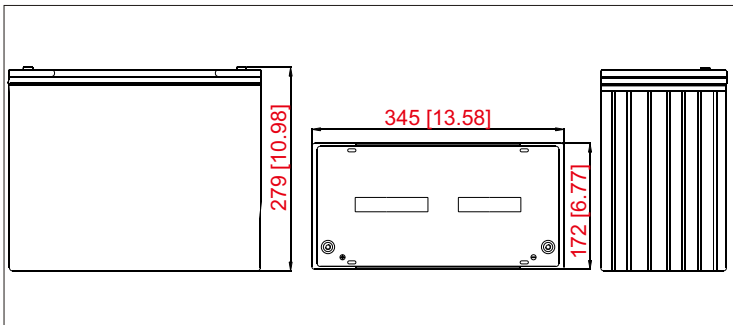
Narada

Model: 12HRL520

HRL Series

The HRL range of VRLA batteries with 12+ years design life 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

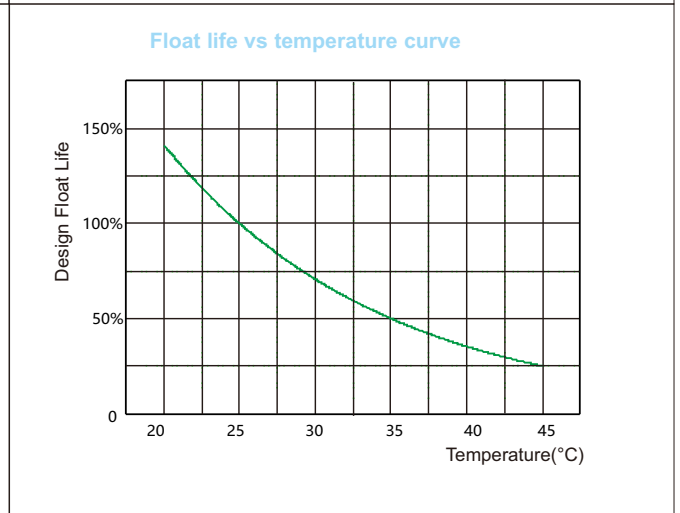
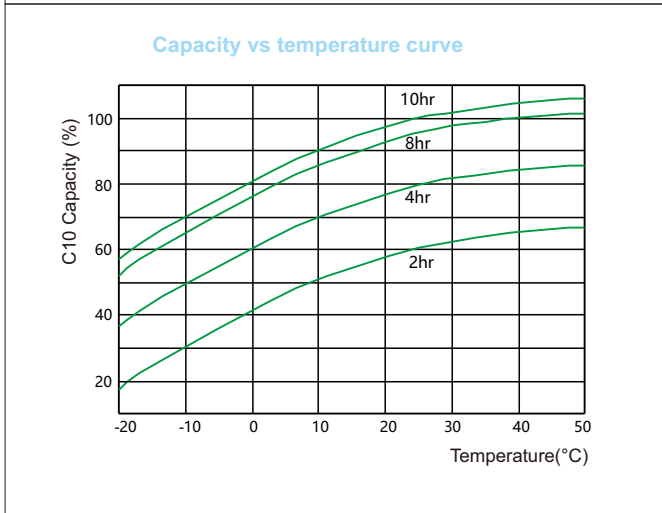
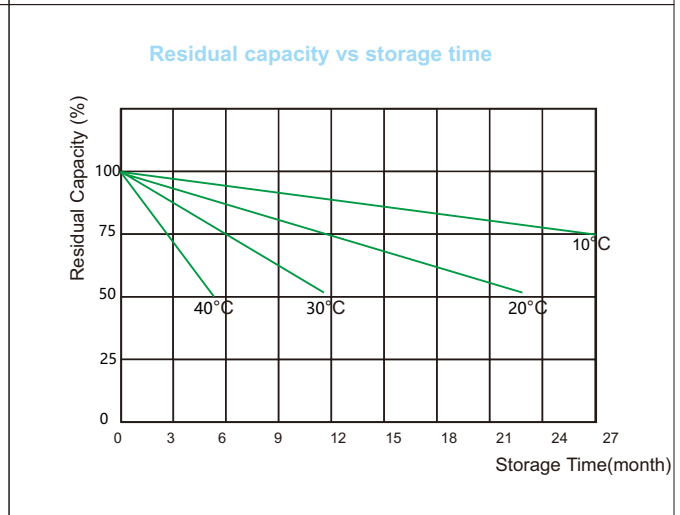
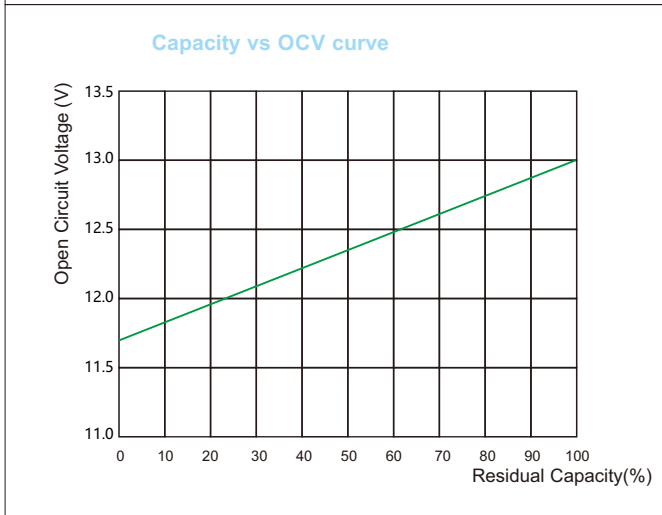
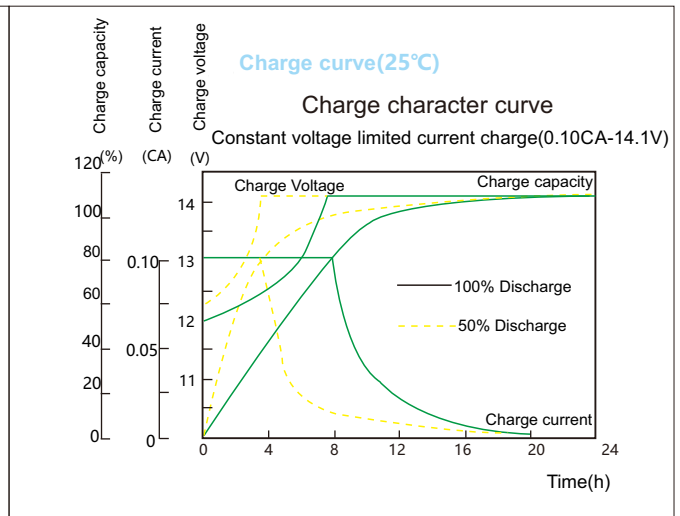
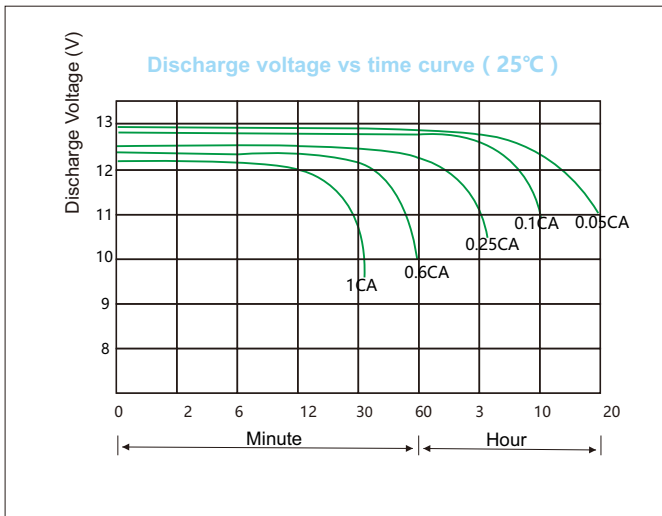
Battery Model	12HRL520
Nominal Voltage	12V
Rated Capacity	520 W/cell(15 minute rate, 1.67 V/cell) and 134Ah(10 hr to 1.80V/cell) @25°C(77°F)
Typical Weight	43.5kg
Internal Resistance	Approx 3.71mΩ
Temperature Ranges	Operation (maximum) : -40°C to 55°C(-40°F to 131°F)
	Operation (recommended) : 15°C to 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	35A
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	8 ± 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	956	682	532	439	329	265	222	192	106
1.67V	890	655	520	433	326	263	221	191	105
1.70V	864	640	511	427	324	262	220	190	104
1.75V	802	605	489	412	316	257	217	188	103
1.80V	727	558	457	389	302	248	211	184	102
1.83V	678	524	433	371	291	240	205	179	101
1.85V	649	498	412	355	280	233	200	175	99.5

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	590	307	184	105	57.4	40.1	31.0	21.6	13.9
1.67V	521	298	182	104	57.0	39.7	30.8	21.5	13.8
1.70V	493	292	180	103	56.8	39.6	30.7	21.4	13.7
1.75V	452	274	173	101	56.2	39.5	30.6	21.3	13.6
1.80V	409	250	162	96.8	55.2	39.2	30.4	21.2	13.4
1.83V	378	230	150	93.8	54.4	38.9	30.3	21.0	12.7
1.85V	350	213	142	91.1	54.1	38.8	30.2	20.7	12.3



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