

stored energy solutions for a demanding world

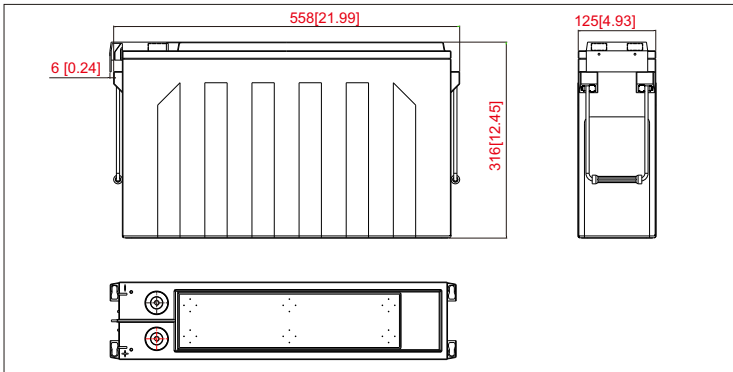
Narada

Model: 12HRL700

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

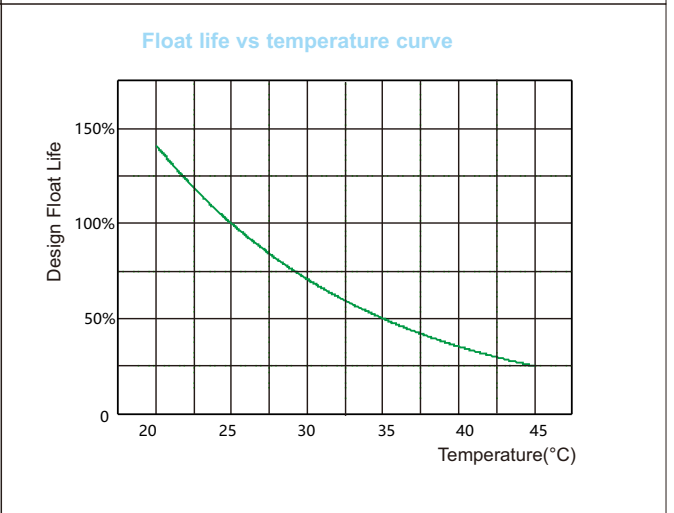
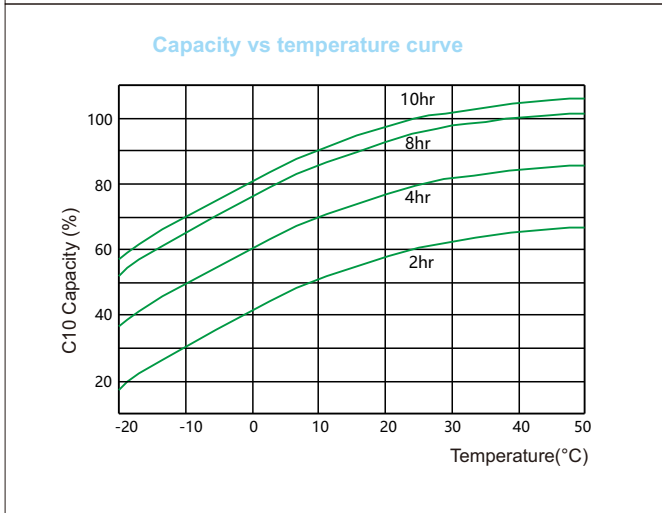
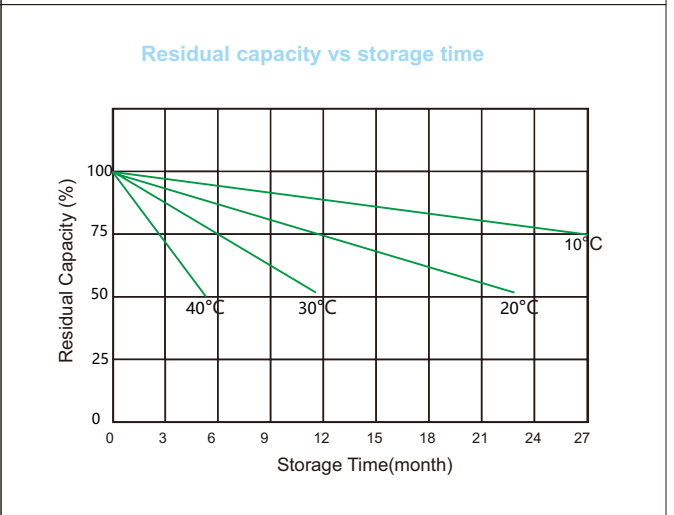
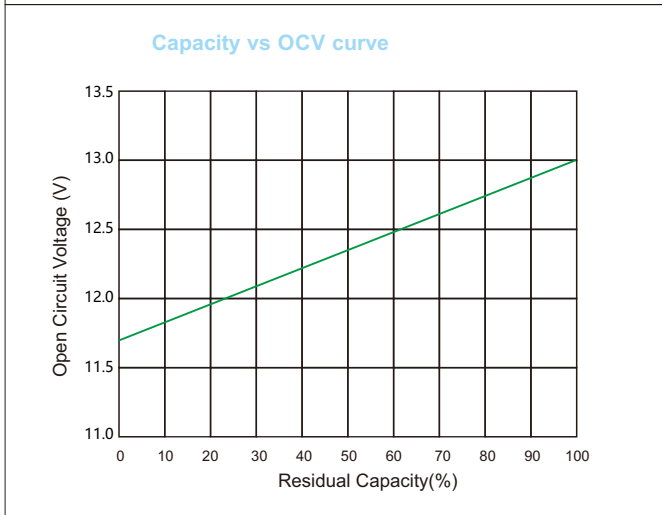
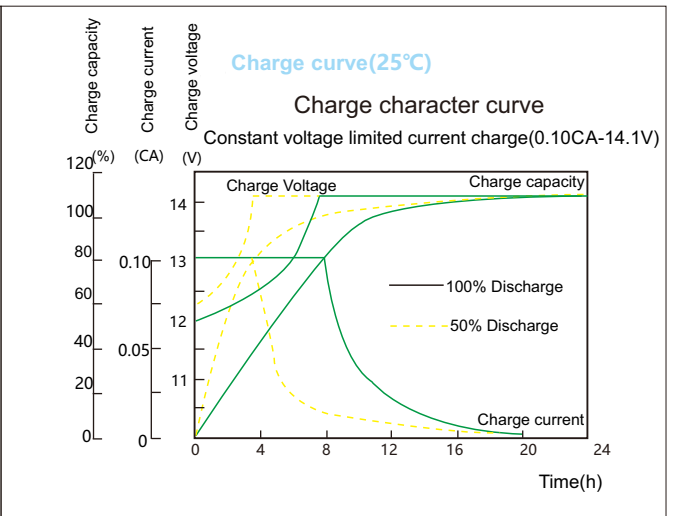
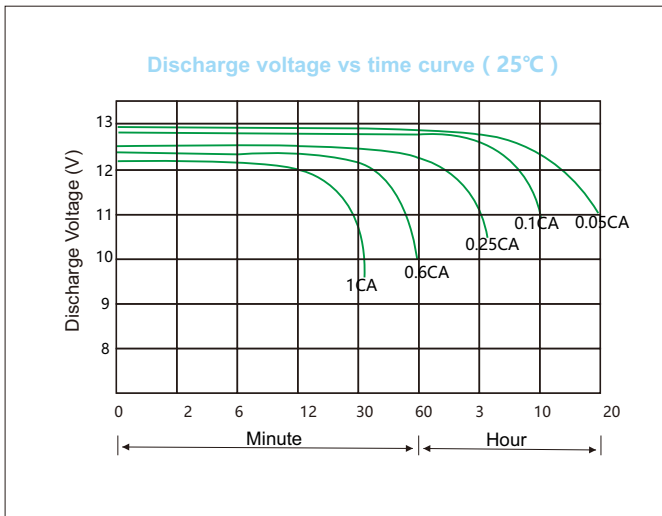
Battery Model	12HRL700
Nominal Voltage	12V
Rated Capacity	700 W/cell(15 minute rate, 1.67 V/cell) and 180Ah(10 hr to 1.80V/cell) @25°C(77°F)
Typical Weight	59kg
Internal Resistance	Approx 2.90mΩ
Temperature Ranges	Operation (maximum): -40°C to 55°C(-40°F to 131°F)
	Operation (recommended): 15°C to 25°C(59°F 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	45A
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 on battery and M6 female on adaptor
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	1154	906	727	605	453	364	305	264	154
1.67V	1106	867	700	587	444	359	303	262	153
1.70V	1080	843	683	574	438	356	301	261	152
1.75V	1021	790	645	547	423	347	296	258	151
1.80V	930	718	593	509	401	334	287	252	149
1.83V	846	663	557	484	388	327	283	249	146
1.85V	792	631	535	468	378	319	276	244	143

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	793	382	231	135	76.7	54.4	42.4	29.7	18.7
1.67V	662	362	226	134	76.3	54.0	42.0	29.4	18.6
1.70V	602	350	223	133	76.0	53.7	41.8	29.2	18.5
1.75V	517	328	216	131	75.1	53.2	41.5	29.0	18.4
1.80V	453	299	202	126	73.3	52.3	40.8	28.5	18.0
1.83V	420	277	190	120	71.4	51.3	40.2	28.1	17.6
1.85V	395	254	177	116	70.6	51.2	40.1	27.8	16.9



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