

stored energy solutions for a demanding world

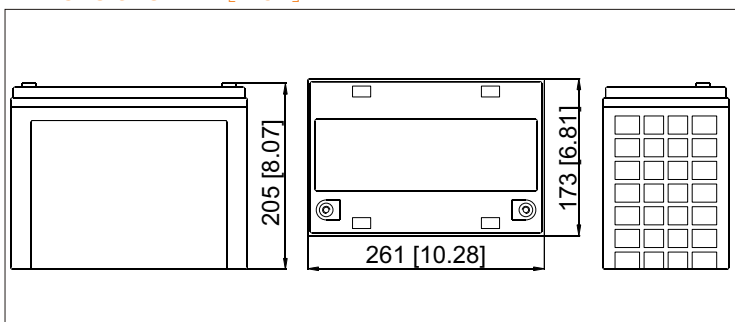
Narada

Model: 12HRL270

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	12HRL270
Nominal Voltage	12V
Rated Capacity	270 Watts per cell at the 15 minute rate to 1.67 volts per cell @25°C(77°F)
Typical Weight	26.5kg
Internal Resistance	Approx 6.5mΩ
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 94% 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	540	388	282	254	178	133	109	92.3	54.6
1.67V	515	373	270	250	176	131	107	92.2	54.3
1.70V	505	363	264	247	174	129	105	92.0	54.2
1.75V	425	315	246	240	166	128	104	92.0	54.0
1.80V	372	292	233	223	157	128	104	89.9	53.8
1.83V	356	274	226	216	150	127	104	89.2	52.3
1.85V	319	259	212	210	147	127	104	88.6	51.1

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

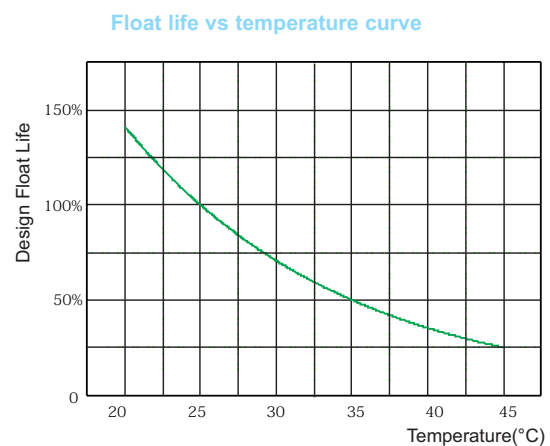
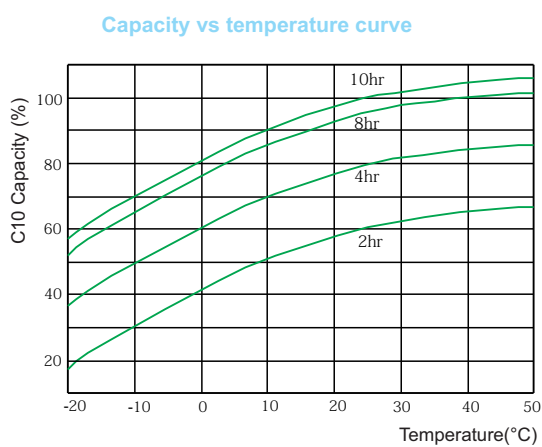
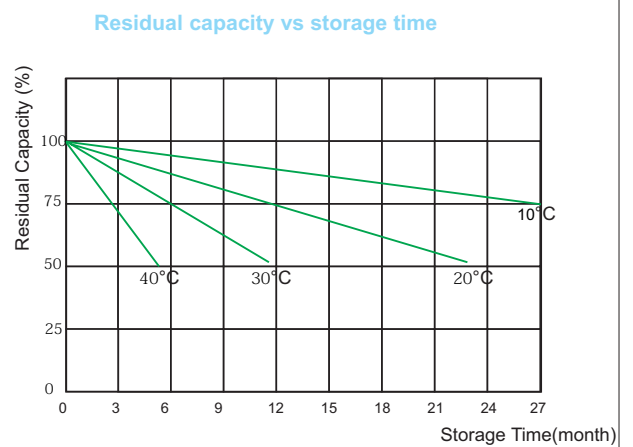
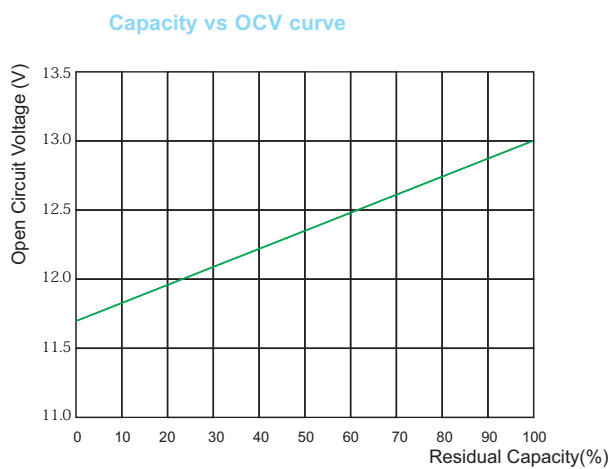
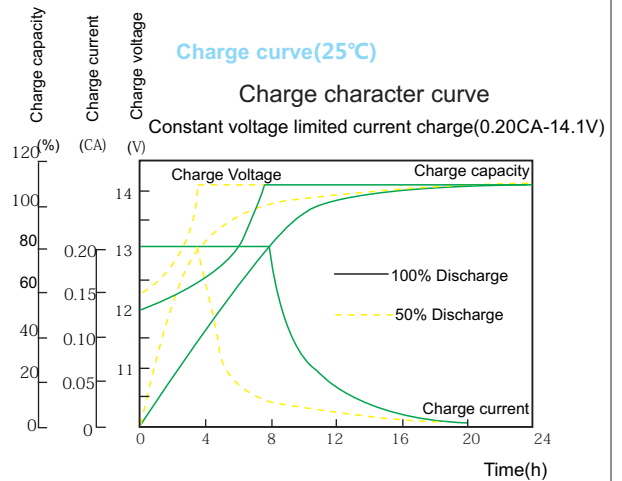
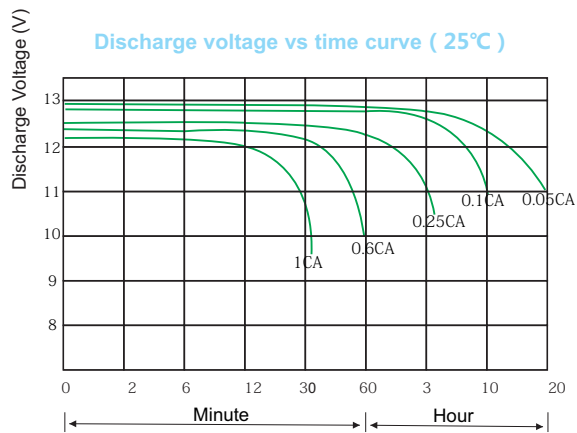
End voltage per cell	5min	15min	30min	1h	2h	3h	4h	6h	10h
1.60V	363	169	99.5	57.0	31.8	22.4	17.3	12.0	7.51
1.67V	336	164	98.0	56.5	31.6	22.2	17.2	11.9	7.46
1.70V	316	160	97.1	56.3	31.5	22.1	17.1	11.9	7.46
1.75V	274	152	94.8	55.6	31.2	21.9	17.0	11.8	7.40
1.80V	232	141	90.4	54.0	30.5	21.4	16.6	11.5	7.26
1.83V	211	132	86.3	52.2	29.8	21.0	16.3	11.3	7.14
1.85V	197	126	82.8	50.5	29.0	20.5	16.0	11.1	7.00

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Zhejiang Narada power source Co., Ltd.
Add: 9F, building A, Zhijinhua Road, Zhejiang, China
Tel: (86 571)56975980 Fax: (86 571)56975955
Email: intl@narada.biz Website: www.naradapower.com



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TEMPEL GROUP ARGENTINA
www.tempelgroup.com
baires@tempelgroup.com
Tel. +54 11 4897-7184/7178

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