

stored energy solutions for a demanding world

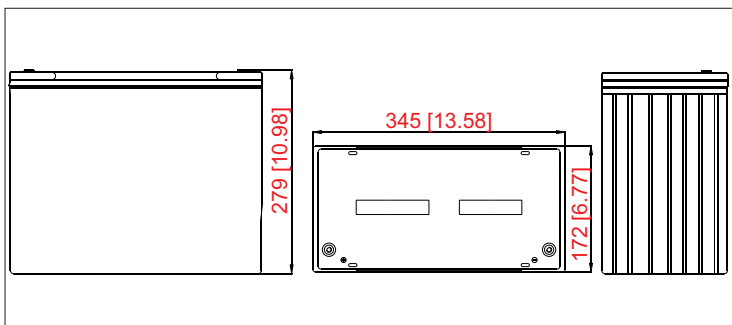
**Narada**

**Model: 12HRL550**

**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	12HRL550
Nominal Voltage	12V
Rated Capacity	550 W/cell(15 minute rate, 1.67 V/cell) and 140Ah(10 hr to 1.80V/cell) @25°C(77°F)
Typical Weight	46.0kg
Internal Resistance	Approx 3.44mΩ
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	960	714	563	465	346	276	231	199	112
1.67V	894	689	550	457	342	274	229	197	111
1.70V	866	674	541	451	338	272	228	196	110
1.75V	819	641	518	435	330	266	224	194	109
1.80V	765	594	484	409	315	257	218	190	108
1.83V	724	559	457	389	302	249	212	185	107
1.85V	692	530	436	373	293	242	208	182	106

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

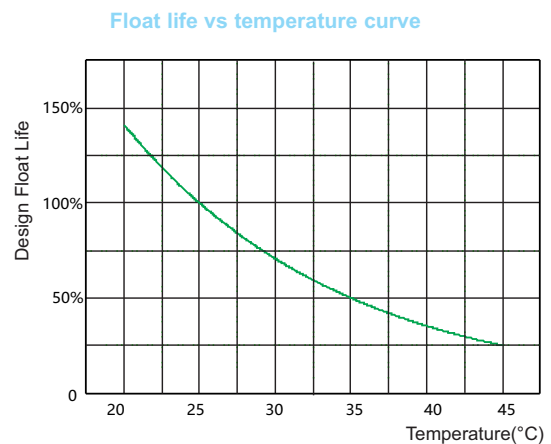
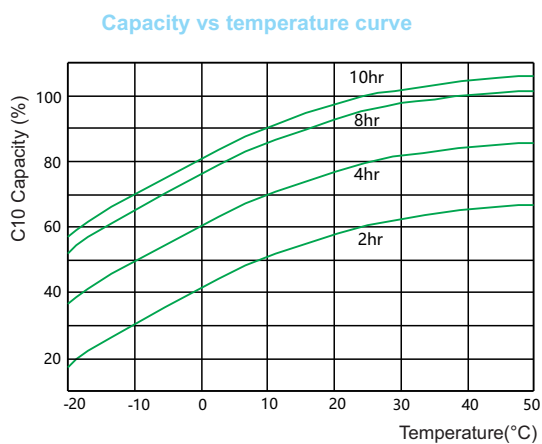
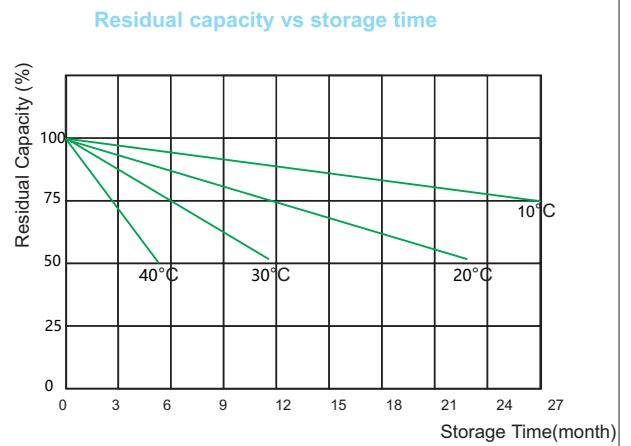
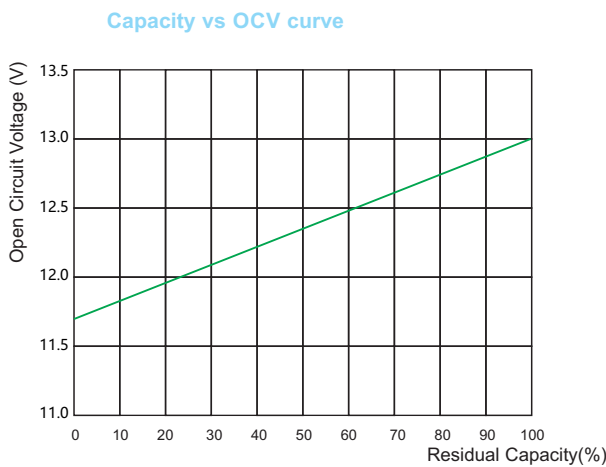
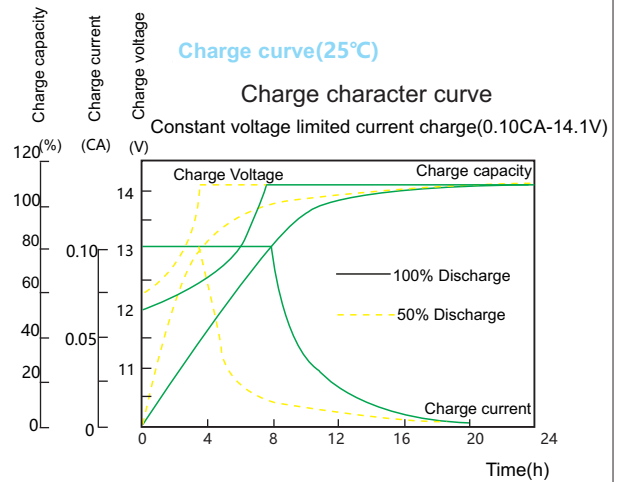
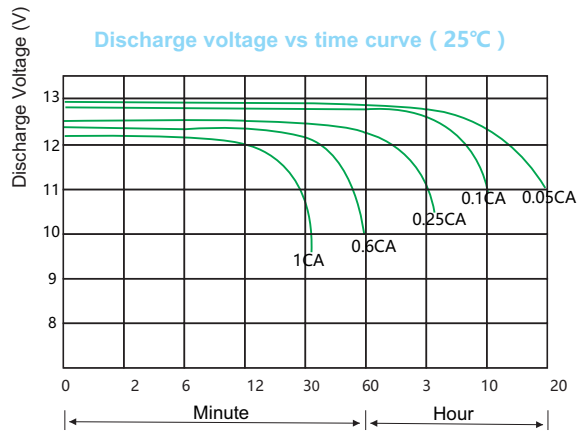
End voltage per cell	5min	15min	30min	1h	2h	3h	4h	6h	10h
1.60V	599	313	187	106	57.8	40.3	31.2	21.7	14.4
1.67V	527	300	184	105	57.4	39.9	30.9	21.6	14.3
1.70V	498	293	181	104	57.2	39.8	30.8	21.5	14.2
1.75V	455	276	174	102	56.6	39.6	30.7	21.4	14.1
1.80V	412	251	163	97.8	55.6	39.3	30.5	21.3	14.0
1.83V	382	231	152	94.1	54.8	39.0	30.4	21.1	13.6
1.85V	353	214	144	91.5	54.5	38.9	30.3	20.9	13.1

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Zhejiang Narada power source Co., Ltd.  
Add: Building A, No.822 Wen'er West Road, Zhejiang, China  
Tel: (86 571)56975980 Fax:(86 571)56975955  
Email: intl@narada.biz Website: www.naradapower.com



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

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