

12HRL550



The Narada High Rate range of VRLA batteries and provide reliable battery backup to any High Rate UPS application.

All Narada High Rate series batteries use optimized plate technology and a patented post design offering exceptional service life.



Technical Features:

- ◆ Flame Retardant ABS Cover and Container, UL94 V-0, LOI>28%
- ◆ Patented copper alloy terminal design
- ◆ Epoxy TPS design for high reliability post seal
- ◆ 6 months of storage at 77°F (25°C) with a capacity > 80%
- ◆ Initial capacity at 100%
- ◆ Low pressure one-way flame arresting valve(s) UL1989
- ◆ Absorbent Glass Mat (AGM) Sealed Technology, Recombination efficiency of 99.9%

Compliance and Safety:

- ◆ **ISO 9001:2000 and ISO 14001:2004 certified production facilities**
- ◆ UL Recognized Component 924, for use in or with listed UL1778, UL1989 and UL924 systems
- ◆ IEC60896-21/22
- ◆ BS6290 part 4 / Eurobatt guide
- ◆ **TL9001 / ISO9001(TUV) Quality System**
- ◆ Battery installation compliant with: EN 50272-2
- ◆ All batteries meet or exceed IEEE recommended practices

Transportation:

- ◆ Classified as Nonspillable UN 2800 and meet the Nonspillable criteria listed in DOT-CFR Title 49, 171-189 (d) (3) (i) and (ii) and exempt from CFR 49, Subchapter C requirements
- ◆ Meets transportation conditions of IMDG exemption 238, IATA/ICAO Special Provision A67 (Not Restricted)

wpc @ 15 min 1.67 vpc / 77°F (25°C)	550 watts
wpc @ 5 min 1.60 vpc / 77°F (25°C)	960 watts
Ah @ 20hr 1.75 vpc / 77°F (25°C)	142 Ah

Nominal Voltage	12V
Float Charge Voltage @25°C (2.23 – 2.27vpc)	13.4 – 13.6
Max. Charge Current (A) (5 hour rate @ 1.75vpc)	35 Amps

Electrolyte Absorbed H ₂ SO ₄	1.300
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Short Circuit Current (A)	4270 Amps
Internal Resistance (mΩ)	3.44 mΩ

Terminal Type	Torque
M6-F	78 in-lbs (8 ±1 Nm)

Dimension	in	mm
Length	13.58	345
Length Base	13.52	344
Width	6.77	172
Overall Height	10.98	279

	Lbs.	Kg
Weight	102	46

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stored energy solutions for a demanding world

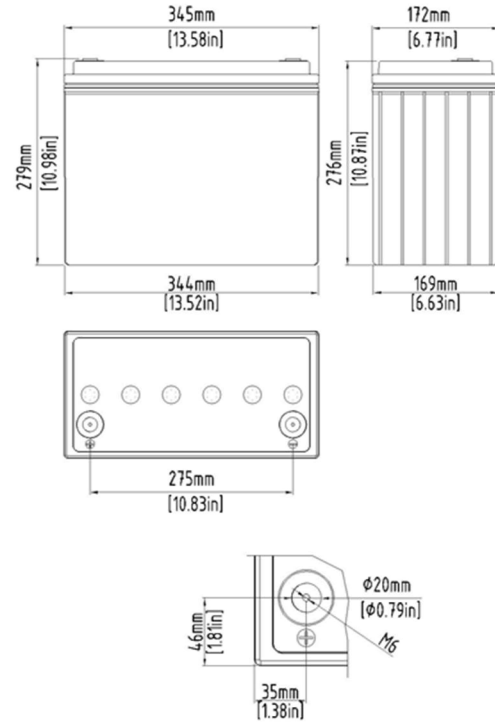
Operating Parameters

Float Charging Voltage	13.5V / 2.25vpc @ 77°F (25°C)
Equalize /Cycle	14.0V – 14.3V 2.33Vpc to 2.38Vpc @ 77°F (25°C)
See Operations and Maintenance Manual for specific guidelines and recharge times	

Charging Temperature Compensation	-2 mV/cell/°F > 77°F (-3.6 mV/cell /°C > 25°C)
	+2 mV/cell/°F < 77°F (+3.6 mV/cell/°C < 25°C)

Maximum AC Ripple (Charger)	0.5% RMS, 1.5% peak-to-peak for float charge voltage for best results
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Operating Temperature Range	
Nominal	+74°F (24°C) to 80°F (27°C)
Charge	-20°F (-28°C) to +122°F (50°C)
Discharge	-40°F (-40°C) to +140°F (60°C)
Storage Temperature Range	-4°F (-20°C) to +104°F (40°C)



Constant Power Discharge Watts per cell (25°C, 77°F)

End Cell Voltage	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

Constant Current Discharge Amperes (25°C, 77°F)

End Cell Voltage	5min	15min	30min	1h	2h	4h	8h	10h	20h
1.60V	599	313	187	106	57.8	31.2	16.9	14.4	7.56
1.67V	527	300	184	105	57.4	30.9	16.8	14.3	7.51
1.70V	498	293	181	104	57.2	30.8	16.7	14.2	7.46
1.75V	455	276	174	102	56.6	30.7	16.5	14.1	7.40
1.80V	412	251	163	98	55.6	30.5	16.4	14.0	7.35
1.83V	382	231	152	94	54.8	30.4	16.2	13.6	7.14
1.85V	353	214	144	92	54.5	30.3	15.8	13.1	6.88

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High Rate HRL-Series