

Narada

stored energy solutions for a demanding world



12HTB550W

The Narada High Temperature High Rate Front Access VRLA batteries provide superior battery life in applications with a nominal operating temperature of 35°C.

Advanced case and cover materials, catalyst vent and proprietary acid formulation contribute to the enhanced performance characteristics.



Technical Features:

- Flame Retardant HT-ABS Cover and Container, UL94 V-0, LOI>28%
- Patented copper alloy terminal design
- 12 months of storage at 68°F (20°C)
- Initial capacity at 100%
- Low pressure one-way flame arresting Catalyst 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
- ◆ **Manufactured under system ISO9001(TUV)**
- ◆ Battery installation compliant with: EN 50272-2 or local equivalents

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 @35°C (2.24vpc)	13.44
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)	1500 Amps
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Internal Resistance (mΩ)	3.44 mΩ
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Terminal Type	Torque
M6-F	78 in-lbs (8 ±1 Nm)

Dimension	in	mm
Length	13.59	345
Length Base	13.59	345
Width	6.77	172
Overall Height	10.98	278

	Lbs.	Kg
Weight	102	46

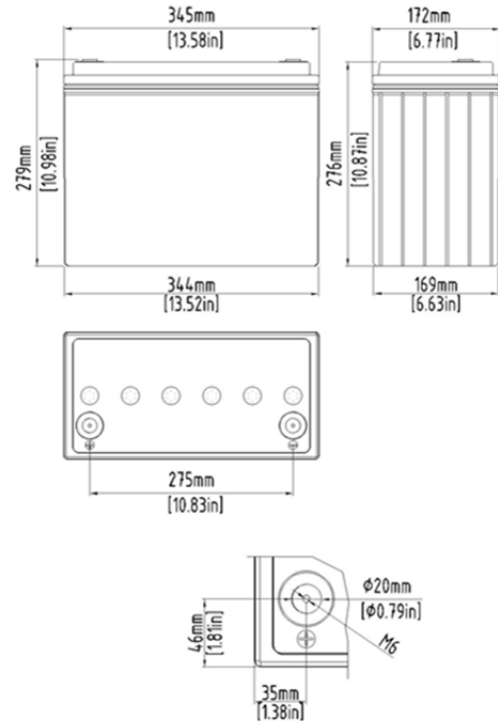
HTB-Series

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Operating Parameters

Equalize /Cycle	2.33Vpc to 2.38Vpc @ 95°F (35°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 > 35°C)
	+2 mV/cell/°F < 77°F (+3.6 mV/cell/°C < 35°C)
Maximum AC Ripple (Charger)	0.5% RMS, 1.5% peak-to-peak for float charge voltage for best results
Maximum Charge Current	C ₅ Rate Amps (5 hour rate @ 1.75vpc)
Operating Temperature Range	
Nominal	+75°F (25°C) to 95°F (35°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 Power Discharge Watts per cell (35°C, 95°F)

End Cell Voltage	5min	10min	15min	20min	30min	40min	50min	1h	2h
1.60V	1037	771	608	502	374	298	249	215	121
1.67V	966	744	594	494	369	296	247	213	120
1.70V	935	728	584	487	365	294	246	212	119
1.75V	885	692	559	470	356	287	242	210	118
1.80V	826	642	523	442	340	278	235	205	117
1.83V	782	604	494	420	326	269	229	200	116
1.85V	747	572	471	403	316	261	225	197	114

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