

Narada

stored energy solutions for a demanding world



12HTB700W

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 vent(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)	700 watts
wpc @ 5 min 1.60 vpc / 77°F (25°C)	1154 watts
Ah @ 20hr 1.75 vpc / 77°F (25°C)	185 Ah

Nominal Voltage	12V
Float Charge Voltage @35°C 2.24vpc	13.44
Max. Charge Current (A) (5 hour rate @ 1.75vpc)	45 Amps

Electrolyte Absorbed H ₂ SO ₄	1.300
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Short Circuit Current (A)	4520 Amps
Internal Resistance (mΩ)	2.9 mΩ

Terminal Type	Torque
M6-M (Front L Bracket)	78 in-lbs (8 ±1 Nm)
M8-F (Top Insert)	90 in-lbs (10 ±1 Nm)

Dimension	in	mm
Length	21.97	558
Length Base	20.87	530
Width	5.0	126
Overall Height	12.45	316

	Lbs.	Kg
Weight	130	59

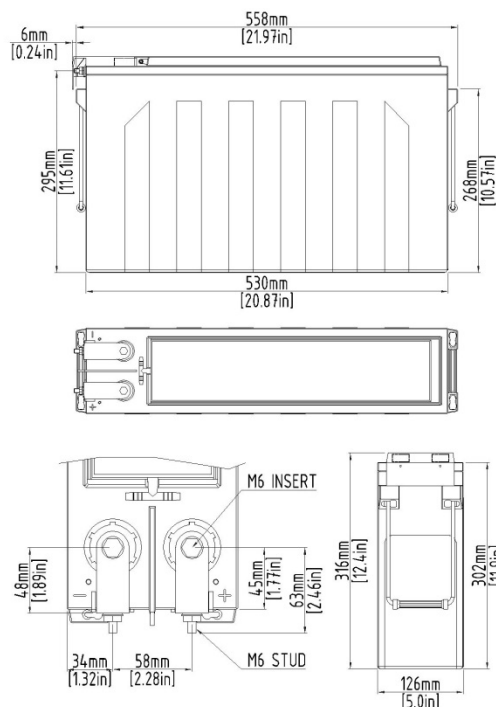
HTB-Series

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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	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

Constant Power Discharge Watts per cell (35°C, 95°F)

End Cell Voltage	5min	10min	15min	20min	30min	40min	50min	1h	2h
1.60V	1224	961	771	642	481	386	324	280	164
1.67V	1173	920	742	623	471	381	322	278	163
1.70V	1145	894	724	609	465	378	320	277	162
1.75V	1083	838	684	580	449	368	314	274	161
1.80V	986	762	629	540	426	355	305	268	158
1.83V	897	703	591	514	412	347	300	264	155
1.85V	840	669	568	497	401	339	293	259	152

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