

## 6-GFM-105F

The Narada Telecom range of VRLA batteries are well suited to provide battery backup to any application long duration or outside plant application.

All Narada Telecom 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)

Ah @ 8hr 1.75 vpc / 77°F (25°C)	101 Ah
Ah @ 10hr 1.80 vpc / 77°F (25°C)	103 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)	26.25 Amps

Electrolyte Absorbed H <sub>2</sub> SO <sub>4</sub>	1.300
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Short Circuit Current (A)	2344 Amps
Internal Resistance (mΩ)	5.4

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

Dimension	in	mm
Length	20.1	511
Length Base	19.1	485
Width	4.3	110
Overall Height	9.4	238

	Lbs.	Kg
Weight	75	34

CLEI	Pending	CPR	Pending
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## 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 Current Discharge (Amps) @ 77°F/25°C															
End vpc	5m	15m	30m	45m	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.67	350	193	119	87.2	70.6	40.5	29.0	23.0	19.5	16.7	12.8	10.5	8.93	5.55	4.64
1.70	346	190	117	86.5	70.0	40.2	28.8	22.9	19.2	16.5	12.7	10.5	8.84	5.54	4.64
1.75	318	184	116	85.9	69.0	39.1	28.5	22.7	19.1	16.4	12.6	10.4	8.84	5.53	4.63
1.80	285	171	111	82.4	67.2	38.8	28.3	22.6	18.7	16.1	12.5	10.3	8.77	5.47	4.62
1.83	272	157	109	79.7	64.3	38.3	27.4	21.6	18.0	15.5	12.2	9.92	8.34	5.46	4.55
1.85	255	152	102	76.5	62.3	36.9	26.6	21.3	17.6	15.2	11.8	9.84	8.24	5.36	4.51
1.86	247	150	98.5	74.9	61.3	36.2	26.2	21.2	17.4	15.1	11.6	9.80	8.19	5.31	4.49

Constant Power Discharge (Watt/Cell) @ 77°F/25°C															
End vpc	5m	15m	30m	45m	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.67	599	345	217	164	133	76.6	55.4	44.4	37.5	32.1	24.9	20.4	17.3	11.1	9.29
1.70	595	341	217	164	132	76.3	55.4	44.2	37.0	31.9	24.7	20.2	17.2	11.0	9.27
1.75	563	339	216	163	130	75.9	54.8	44.2	37.0	31.8	24.5	20.2	17.1	11.0	9.27
1.80	516	320	211	159	130	75.7	54.6	44.1	36.3	31.5	24.4	20.1	17.1	11.0	9.25
1.83	500	293	209	155	125	74.7	53.4	42.5	35.5	30.6	24.2	19.6	16.6	11.0	9.19
1.85	474	286	194	148	121	72.3	51.9	41.9	34.7	30.0	23.5	19.5	16.4	10.8	9.11
1.86	461	283	187	145	119	71.1	51.2	41.6	34.3	29.7	23.2	19.4	16.3	10.7	9.07

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