

# TELECOM RANGE



**Model No. TEL 200F** (12 Volts, 202 Ah at 8 hour Rate to 1.75 vpc)  
Valve Regulated Lead acid Battery for communications  
standby power applications

**Innovative Features**

- ◆ Completely maintenance free, sealed construction eliminates the need for watering
- ◆ Fully tank formed plates
- ◆ Analytical Grade electrolyte
- ◆ Spill proof / leak proof
- ◆ Valve regulated Max internal pressure 2.5 psi
- ◆ Multi-position usage
- ◆ ABS Case & Cover Flame Retardant meets UL 94 VO requirements
- ◆ Low self discharge
- ◆ FAA and IATA approved as non-hazardous
- ◆ Designed to comply with Bellcore TR-NWT-000766, Bellcore TR-NWT-000909, ANSI T1.330-1997, Telcordia SR 4228, British Standard BS 6290 Part 4, IEC 896 Part 2, Eurobat, DIN 43534
- ◆ UL Recognized, ISO 9001

**Ampere Hour Capacity at 77°F (25°C) to 1.75 vpc**

Discharge Time in Hrs	1	2	3	4	5	6	7	8	10
Ampere Hour Capacity	136.0	158.0	172.0	181.0	187.0	193.0	198.0	202.0	209.0

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AGM Range  
Sealed Lead Acid 12 Volt Bloc

### Specifications

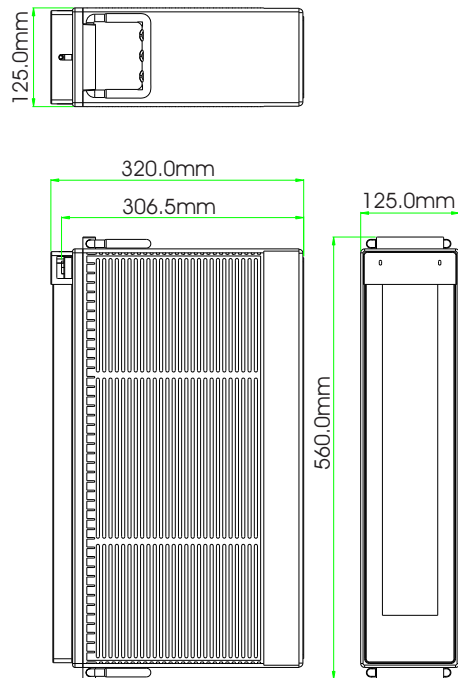
Nominal Voltage		12V	
Nominal Capacity		220 Ah	C20
Dimensions	Total Height (Inc terminals)	12.60 inches	320 mm
	Length	n/a	n/a
	Width	22.05 inches	560 mm
	Weight	4.92 inches	125 mm
		129.3 lbs	58.5 Kg

### Characteristics

Capacity 77°F (25°C) to 1.75 vpc	20 hour rate	220 Ah
	10 hour rate	209 Ah
	5 hour rate	187 Ah
	1 hour rate	136 Ah
	15 min rate	66.8 Ah
	Internal Resistance	3.3 mOhms
Capacity correction for temperature Variations (C20)	Impedance	1700s
	104°F (40°C)	102%
	68°F (20°C)	100%
	32°F (0°C)	85%
Self Discharge 77°F (25°C)	5°F (-15°C)	65%
	Capacity after 1 month storage	98%
	Capacity after 3 months storage	94%
Max Charge Current 68°F (20°C)	Capacity after 6 months storage	86%
	45	
	Terminal	Standard
Charging (Constant Voltage)	Cyclic	2.40 vpc (59 -77°F)
	Float	2.27 - 2.30 vpc (59 -77°F)



Haze Battery Company Ltd



End V per Cell	Ampere Hour at 77°F (25°C)											
	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	
1.85	120.0	139.0	151.0	159.0	165.0	170.0	174.0	178.0	184.0	188.0	194.0	
1.80	128.0	149.0	162.0	170.0	176.0	181.0	186.0	190.0	197.0	200.0	207.0	
1.75	136.0	158.0	172.0	181.0	187.0	193.0	198.0	202.0	209.0	213.0	220.0	
1.70	138.0	161.0	175.0	183.0	190.0	196.0	201.0	205.0	213.0	216.0	223.0	

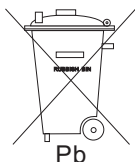
End V per Cell	Constant Amps Discharge - Amps at 77°F (25°C)											
	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	
1.85	120.00	69.60	50.40	39.70	33.00	28.30	24.90	22.10	18.40	15.60	9.68	
1.80	128.00	74.30	53.90	42.50	35.20	30.20	26.60	23.60	19.70	16.70	10.30	
1.75	136.00	79.10	57.30	45.20	37.50	32.20	28.30	25.10	20.90	17.80	11.00	

### Specifications

Design Life	12 Years
Operating Temperature	-4 °F to 122 °F
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	Very high purity lead
Charge Voltage	Float 2.25 - 2.30 VPC @77 °F Cycling 2.35 @77 °F Max. 2.4 VPC Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Analytical grade purity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Torque setting	The recommended torque value for all types is 44-62 inch-pounds

### Terminal Details

Insert are made from brass with copper, nickel and silver plating giving excellent mechanical, electrical and corrosion resistant properties.



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

