

# TELECOM RANGE



**Model No. TEL 40F** (12 Volts, 39.4 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	27.2	30.2	32.4	34.2	35.6	37.1	38.3	39.4	40.7

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AGM Range  
Sealed Lead Acid 12 Volt Bloc

## Specifications

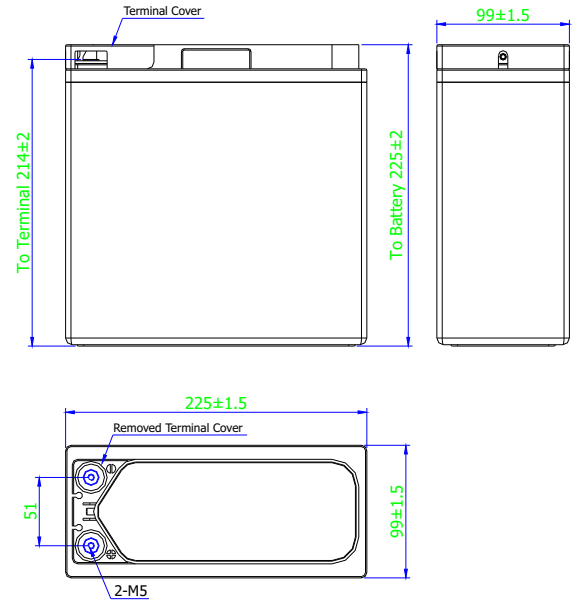
Nominal Voltage		12V	
Nominal Capacity		43.6 Ah	C20
Dimensions	Total Height (Inc terminals)	8.86 inches n/a	225 mm n/a
	Length	8.86 inches	225 mm
	Width	3.9 inches	99 mm
	Weight	29 lbs	13.1 Kg

## Characteristics

Capacity 77°F (25°C) to 1.75 vpc	20 hour rate	43.6 Ah
	10 hour rate	40.7 Ah
	5 hour rate	35.6 Ah
	2 hour rate	30.2 Ah
	1 hour rate	27.2 Ah
Internal Resistance		5 mOhms
Capacity correction for temperature Variations (C20)	104°F (40°C)	102%
	68°F (20°C)	100%
	32°F (0°C)	85%
	5°F (-15°C)	65%
Self Discharge 77°F (25°C)	Capacity after 1 month storage	98%
	Capacity after 3 months storage	94%
	Capacity after 6 months storage	86%
Max Charge Current 68°F (20°C)	10	
Terminal	Standard	12mm Insert M5 thread
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	23.90	26.60	28.80	30.70	31.90	33.30	34.40	35.40	36.60	37.40	39.10
1.80	25.60	28.40	30.80	32.80	34.10	35.60	36.80	37.80	39.10	39.90	41.80
1.75	27.20	30.20	32.40	34.20	35.60	37.10	38.30	39.40	40.70	41.70	43.60
1.70	27.80	30.90	33.40	35.60	37.10	38.70	40.00	41.10	42.50	43.40	45.40

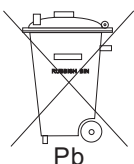
End V per Cell	Constant Amps Discharge - Amps at 77°F (25°C)										
	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	23.90	13.30	9.60	7.67	6.39	5.53	4.92	4.40	3.66	3.12	1.96
1.80	25.60	14.20	10.30	8.20	6.82	5.91	5.25	4.70	3.91	3.33	2.09
1.75	27.20	15.10	10.80	8.55	7.12	6.16	5.48	4.90	4.07	3.47	2.18
1.70	27.80	15.50	11.10	8.91	7.42	6.43	5.71	5.11	4.25	3.62	2.27

## 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 2.27 - 2.30 VPC @77 °F Cychling 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.



UL Recognized  
Component  
MH 20947

