

# TELECOM RANGE



**Model No. TEL 40F** (12 Volts, 41 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	27.4	31.5	34.1	36.3	38.2	39.4	40.5	41.0	41.9

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Sealed Lead Acid 12 Volt Bloc AGM Range

## Specifications

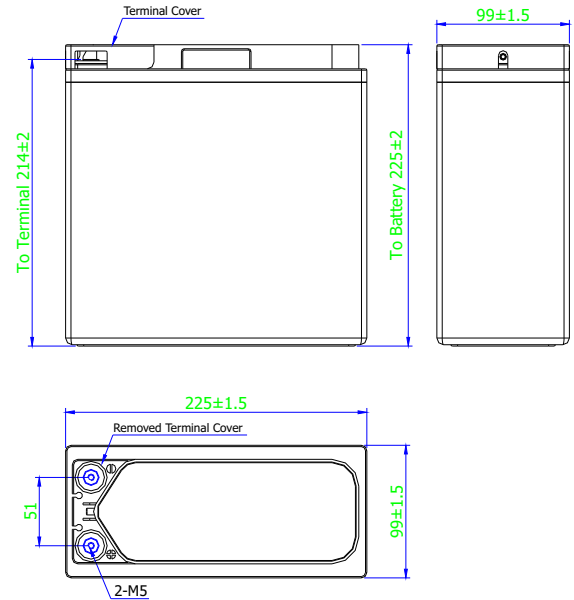
Nominal Voltage		12V	
Nominal Capacity		43.3 Ah	C20
Dimensions	Total Height (Inc terminals)	8.86 inches n/a	225 mm n/a
	Length	8.86 inches	225 mm
	Width	3.9 inches	99 mm
	Weight	29 lbs	13.1 Kg



Haze Battery Company Ltd

## Characteristics

Capacity 77°F (25°C) to 1.75 vpc	20 hour rate	43.3 Ah
	10 hour rate	41.9 Ah
	5 hour rate	38.2 Ah
	2 hour rate	31.5 Ah
	1 hour rate	27.4 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)



### End V per Ampere Hour at 77°F (25°C)

Cell	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.85	24.1	27.7	30.0	32.0	33.6	34.6	35.6	36.1	36.8	37.3	38.1	38.4
1.80	25.8	29.6	32.1	34.1	35.9	37.0	38.0	38.6	39.3	39.8	40.7	41.1
1.75	27.4	31.5	34.1	36.3	38.2	39.4	40.5	41.0	41.9	42.3	43.3	43.7
1.70	28.0	32.2	34.9	37.1	39.1	40.2	41.4	41.9	42.8	43.3	44.3	44.7

### End V per Constant Amps Discharge - Amps at 77°F (25°C)

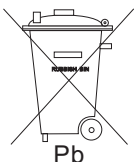
Cell	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.85	24.10	13.90	10.00	7.99	6.73	5.76	5.09	4.49	3.68	3.10	1.91	1.60
1.80	25.80	14.80	10.70	8.54	7.19	6.15	5.43	4.80	3.93	3.32	2.04	1.71
1.75	27.40	15.80	11.40	9.08	7.65	6.54	5.78	5.10	4.19	3.53	2.17	1.82
1.70	28.00	16.10	11.60	9.28	7.81	6.68	5.91	5.21	4.28	3.61	2.21	1.86

## 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 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.



UL Recognized  
Component  
MH 20947

