

TEL40F Valve Regulated Lead Acid battery.
12 year design life for stand by power applications.
12 Volts 40 Ah

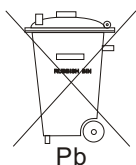
Features - Designed to meet the future needs of the Tele-communications industry for - mobile, wired, access, transmission, switching, integrated power applications etc. Resulting in the following benefits to the customer:

- Compactness
- ETSI / 19" / 23" Integration
- Modularity
- Rackable Standard component
- Long life
- Use under extreme conditions
- High power volume ratio
- Maintenance free utilising VRLA technology
- Low Installation costs
- Front Connections and terminal access
- Long Design Life - 12 years
- Rope handles on 70Ah upwards
- Central gassing system and hinged front covers on all models
- Integral flame arrestor
- Low Internal resistance
- Recyclable lead and plastics
- Designed to meet BELLCORE, BS6290 Pt4, IEC896-2 recommendations
- Excellent Cycling ability
- Low self discharge rates



Specifications

Nominal Voltage	12 Volts
Design Life	12 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	AGM - Absorbant Glass Mat
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.27 - 2.30 VPC @25 °C Cycling 2.35 @25 °C 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)
Terminal	Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value is 5-7 Nm
Connectors	Supplied as standard



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

Website: www.hazebatteryusa.com
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Sealed Lead Acid 12 Volt Bloc AGM Range

PRODUCT SHEET TEL40F

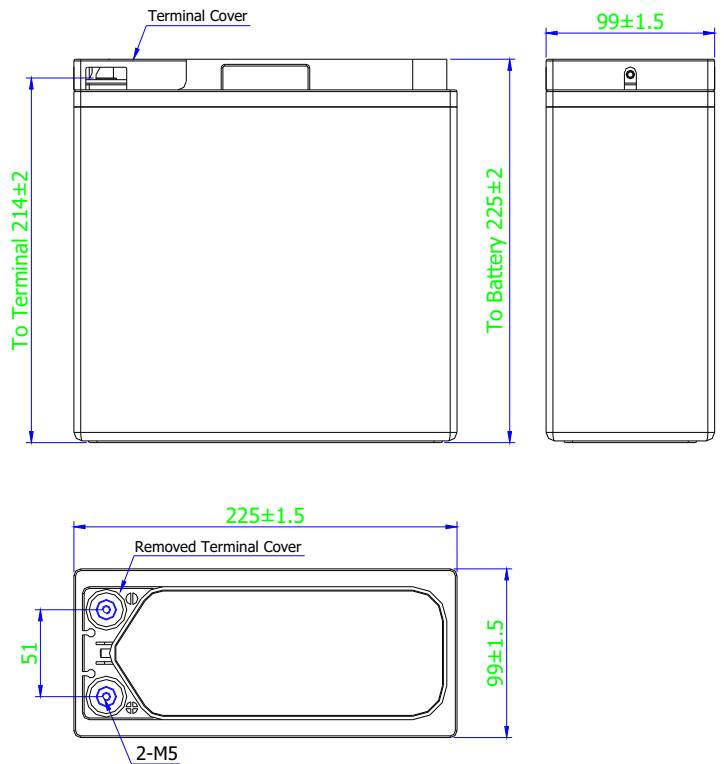
**12V
AGM**

Specifications

Nominal Voltage		12V	
Nominal Capacity		40 Ah	C10
Dimensions	Total Height (Inc. terminals)	225 mm	8.86 inches
	Length	225 mm	8.86 inches
	Width	99 mm	3.90 inches
	Weight	13.1 Kg	28.95 lbs

Characteristics

Capacity 20-25 °C (68-77 °F) To 1.7 volts	20 hour rate	45.4 Ah
	10 hour rate	42.5 Ah
	5 hour rate	37.1 Ah
	1 hour rate	28.4 Ah
	15 min rate	20.3 Ah
	Internal Resistance	5 mOhms
Capacity correction for Temperature Variations (C20)	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
	-15 °C (5 °F)	65%
Self-Discharge 20 °C (68 °F)	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
	Capacity after 6 months storage	86%
Max Charge Current 20 °C (68 °F)	10	
Terminal	Standard	12mm Insert M5 thread
	Optional	
Charging (Constant Voltage)	Cydic	2.40 VPC (15-25 °C)
	Float	2.27 - 2.30 VPC (15-25 °C)



Constant Power Discharge - Watts per Cell @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10hr	12hr	20hr	24hr
1.85	232	144	111	92.4	79.8	70.4	62.7	57.2	52.6	42.3	30.8	24.4	17.5	13.6	11.3	9.7	8.6	7.7	6.39	5.49	3.52	2.98
1.80	248	153	119	98.7	85.3	75.2	66.9	61.2	56.2	45.2	32.9	26.0	18.6	14.6	12.1	10.4	9.2	8.2	6.82	5.86	3.76	3.18
1.75	264	163	127	105	90.7	80.0	71.2	65.1	59.7	48.1	35.0	27.7	19.8	15.5	12.8	11.0	9.8	8.7	7.26	6.23	4.00	3.39
1.70	270	167	129	107	92.7	81.8	72.8	66.5	61.1	49.2	35.8	28.3	20.3	15.8	13.1	11.3	10.0	8.9	7.42	6.37	4.09	3.46
1.65	273	169	131	109	93.9	82.8	73.7	67.3	61.8	49.8	36.2	28.7	20.5	16.0	-	-	-	-	-	-	-	-
1.60	276	171	132	110	94.8	83.6	74.4	68.0	62.4	50.3	36.6	28.9	20.7	16.2	-	-	-	-	-	-	-	-

Constant Amps Discharge - Amps @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10hr	12hr	20hr	24hr
1.85	117	84.5	70.0	58.1	49.6	43.8	38.5	34.7	31.4	24.4	17.1	13.3	9.6	7.67	6.39	5.53	4.92	4.40	3.66	3.12	1.96	1.66
1.80	125	90.2	74.7	62.0	53.0	46.8	41.1	37.0	33.5	26.1	18.2	14.2	10.3	8.20	6.82	5.91	5.25	4.70	3.91	3.33	2.09	1.78
1.75	133	96.0	79.5	66.0	56.4	49.8	43.8	39.4	35.7	27.8	19.4	15.1	10.8	8.55	7.12	6.16	5.48	4.90	4.07	3.47	2.18	1.85
1.70	136	98.1	81.3	67.5	57.6	50.9	44.7	40.3	36.5	28.4	19.8	15.5	11.1	8.91	7.42	6.43	5.71	5.11	4.25	3.62	2.27	1.93
1.65	137	99.4	82.3	68.3	58.3	51.5	45.3	40.8	36.9	28.7	20.1	15.6	11.3	9.0	-	-	-	-	-	-	-	-
1.60	139	100	83.1	69.0	58.9	52.0	45.7	41.2	37.3	29.0	20.3	15.8	11.4	9.1	-	-	-	-	-	-	-	-

Ampere Hour @ 20-25 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10hr	12hr	20hr	24hr
1.85	26.6	28.8	30.7	31.9	33.2	34.4	35.2	36.6	37.4	39.1	39.9
1.80	28.4	30.8	32.8	34.1	35.5	36.8	37.6	39.1	39.9	41.8	42.7
1.75	30.2	32.4	34.2	35.6	37.0	38.3	39.2	40.7	41.7	43.6	44.5
1.70	30.9	33.4	35.6	37.1	38.6	40.0	40.9	42.5	43.4	45.4	46.4
1.65	31.3	33.9	-	-	-	-	-	-	-	-	-
1.60	31.6	34.2	-	-	-	-	-	-	-	-	-