

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH707
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 200Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 707Watts/cell
- Design Life: 12 years at 20° C

ELECTRICAL CHARACTERISTICS

- Float Voltage Charge: 2.27 V/cell at 20° C, 2.25 V/cell at 25° C
- Boost Charge: 2.35 - 2.40 V/cell
- Maximum Charge Current: 50 A
- Float Voltage Temperature Compensation: -15 mV/°C/bloc
- Self-Discharge: < 2%/month at 20° C
- Operation Temperature Range: -20° C ~ + 40° C
- Recommended Operating Temperature: +10° C ~ +30° C
- Short Circuit Current (IEC60896-21/22): 4510A
- Internal Resistance (IEC60896-21/22): 2.8mΩ

TECHNICAL FEATURES

- Positive & Negative Plates: Flat pasted with high quality grids and Lead-tin-calcium alloy
- Electrolyte: H₂SO₄ absorbed in AGM separators
- Containers: ABS IEC 707 FV0 and UL 94 V0 flame retardant plastics
- Separators: Industrial standard glass micro-fibre mats, high micro porosity
- Valves: Industrial standard Bunsen valves opening pressure 15-25 kPa
- Terminal Posts: Threaded female M8 terminal posts (high conductivity and easy installation)

APPLICABLE STANDARDS

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- BS 6290 Part 4 – specifications for VRLA classification
- Eurobat "High Performance" – 10-12 years design life

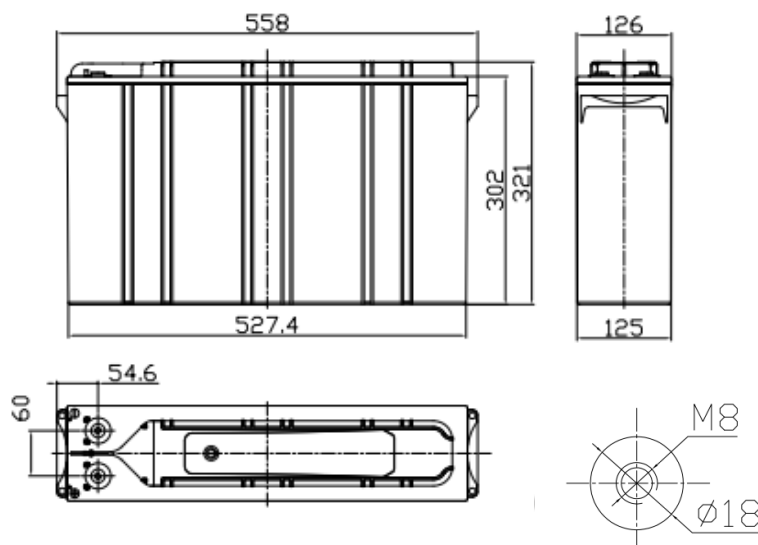
MANUFACTURING CERTIFICATES

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- ISO 45001 Workplace Safety and Health

FH707 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH707
Length	558mm
Width	126mm
Height	321mm
Battery Weight	61Kg
Connection Torque	10~12Nm



DISCHARGING DATA

FH707: CONSTANT POWER DISCHARGE DATA - Watts per cell (W/cell) at 25°C

End voltage V/cell	Minutes													
	5	10	15	30	45	60	120	180	240	300	360	480	600	1200
1.60	1098	894	736	477	340	275	155	112	87.1	72.7	63.6	48.1	39.1	20.3
1.65	1067	872	717	472	337	273	154	111	86.5	72.1	63.1	47.7	38.9	20.2
1.67	1054	864	711	470	336	272	154	111	86.2	71.9	62.2	47.6	38.9	20.2
1.70	1036	851	701	467	335	271	153	110	85.8	71.0	61.5	47.4	38.8	20.2
1.75	973	807	678	456	329	267	152	108	84.4	70.5	61.0	46.8	38.4	20.0
1.80	848	721	620	435	318	259	148	105	81.7	68.3	59.2	45.5	37.7	19.8

FH707: CONSTANT CURRENT DISCHARGE DATA - Current (A) at 25°C

End voltage V/cell	Minutes													
	5	10	15	30	45	60	120	180	240	300	360	480	600	1200
1.60	603	480	387	244	170	137	76.9	55.3	43.1	35.9	31.0	23.7	19.3	10.1
1.65	572	459	372	238	167	136	76.0	54.6	42.4	35.3	30.6	23.4	19.1	10.0
1.67	558	450	364	235	167	134	75.5	54.2	42.1	35.1	30.4	23.2	19.0	10.0
1.70	548	443	359	233	166	134	75.1	53.9	41.9	34.9	30.2	23.1	18.9	10.0
1.75	505	414	342	226	162	131	73.8	52.7	41.0	34.2	29.6	22.7	18.7	10.0
1.80	433	363	309	213	155	126	71.4	50.6	39.5	33.0	28.6	22.0	18.2	9.71



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