

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH150
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 40Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 150Watts/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: 10 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
- Maximum Discharge Current: 400A
- Short Circuit Current (IEC60896-21/22): 1380A
- Internal Resistance (IEC60896-21/22): 9.20mΩ

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 M6 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

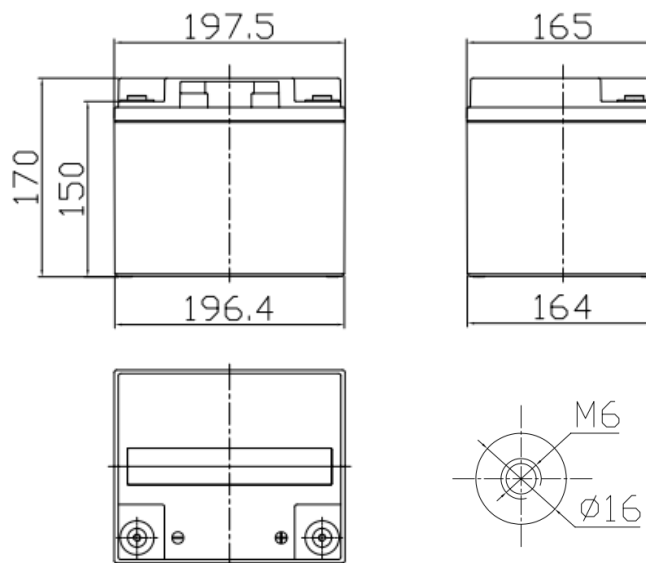
MANUFACTURING CERTIFICATES

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

FH150 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH150
Length	197.5mm
Width	165mm
Box height	170mm
Terminal height	170mm
Battery Weight	13.5Kg
Connection Torque	7~9Nm



DISCHARGING DATA

FH150: 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	294	205	156	93.9	66.0	53.1	28.4	20.5	15.9	13.1	11.6	8.74	7.37	4.02
1.65	287	201	155	93.1	65.6	52.9	28.3	20.4	15.8	13.1	11.6	8.70	7.34	4.01
1.67	282	199	154	92.7	65.4	52.7	28.2	20.4	15.8	13.0	11.6	8.70	7.33	4.00
1.70	275	195	152	92.0	65.0	52.4	28.1	20.3	15.7	13.0	11.6	8.69	7.32	3.99
1.75	262	189	149	91.4	64.6	52.1	28.0	20.2	15.6	12.9	11.5	8.66	7.27	3.96
1.80	250	184	147	90.3	63.3	51.1	27.7	19.8	15.4	12.8	11.4	8.62	7.19	3.91

FH150: 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	167	113	84.9	49.1	33.9	27.5	14.6	10.5	8.10	6.69	5.88	4.43	3.97	2.05
1.65	158	109	82.4	48.0	33.5	27.2	14.4	10.4	8.01	6.62	5.81	4.40	3.93	2.03
1.67	153	106	80.9	47.4	33.2	27.0	14.3	10.4	7.98	6.59	5.79	4.38	3.91	2.02
1.70	149	105	79.9	47.0	33.0	26.8	14.3	10.4	7.95	6.57	5.77	4.37	3.90	2.02
1.75	140	99.5	77.3	46.3	32.5	26.5	14.1	10.2	7.85	6.50	5.71	4.34	3.86	2.00
1.80	131	95.3	75.3	45.3	31.6	25.8	13.9	9.94	7.69	6.39	5.62	4.30	3.80	1.96



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