

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH100
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 25Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 100Watts/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: 6.25 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): Approx. 750A
- Internal Resistance (IEC60896-21/22): Approx. 15mΩ

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 M5 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

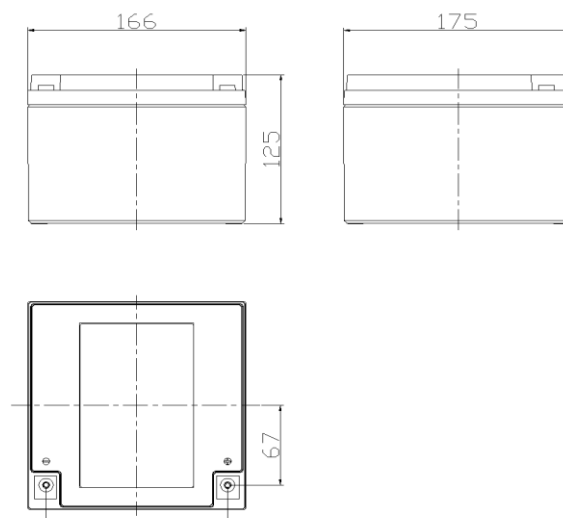
MANUFACTURING CERTIFICATES

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

FH100 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH100
Length	166mm
Width	175mm
Box height	125mm
Total height	125mm
Battery Weight	9.58Kg
Connection Torque	5~6Nm



DISCHARGING DATA

FH100: CONSTANT POWER DISCHARGE DATA - Watts per cell (W/cell) at 25°C

End Voltage V/cell	Minutes (min)													
	5	10	15	30	45	60	120	180	240	300	360	480	600	1200
1.60	192	129	103	65.8	46.1	37.4	19.7	13.5	10.4	8.58	7.64	5.72	4.83	2.63
1.65	187	126	102	65.2	45.8	37.2	19.6	13.4	10.3	8.55	7.61	5.70	4.81	2.62
1.67	185	125	102	65.1	45.8	37.2	19.6	13.4	10.3	8.54	7.61	5.70	4.80	2.62
1.70	182	124	102	64.9	45.7	37.1	19.6	13.3	10.3	8.53	7.59	5.69	4.79	2.62
1.75	173	120	99.2	63.5	45.3	36.9	19.5	13.2	10.2	8.48	7.55	5.68	4.77	2.60
1.80	161	114	95.7	62.1	44.9	36.7	19.4	13.0	10.1	8.38	7.46	5.64	4.71	2.56

FH100: CONSTANT CURRENT DISCHARGE DATA - Current (A) at 25°C

End Voltage V/cell	Minutes (min)													
	5	10	15	30	45	60	120	180	240	300	360	480	600	1200
1.60	110	71.9	55.9	34.4	23.8	19.2	10.1	6.85	5.26	4.35	3.81	2.88	2.51	1.33
1.65	103	68.2	54.6	33.6	23.4	19.0	9.93	6.78	5.21	4.30	3.77	2.86	2.48	1.32
1.67	101	67.0	53.9	33.4	23.3	18.9	9.88	6.75	5.18	4.28	3.75	2.85	2.47	1.31
1.70	98.9	66.2	53.4	33.2	23.2	18.8	9.85	6.73	5.17	4.27	3.74	2.84	2.46	1.31
1.75	92.2	63.3	51.4	32.2	22.8	18.6	9.75	6.63	5.10	4.22	3.70	2.82	2.44	1.30
1.80	84.4	58.7	49.1	31.2	22.4	18.3	9.64	6.46	5.00	4.15	3.64	2.79	2.40	1.27



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