

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH200
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 55Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 200Watts/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: 13.75 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): 1550A
- Internal Resistance (IEC60896-21/22): 8.26mΩ

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

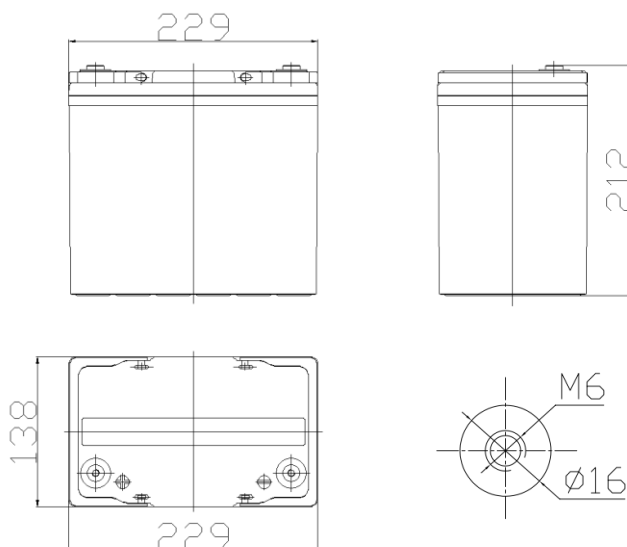
MANUFACTURING CERTIFICATES

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

FH200 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH200
Length	229mm
Width	138mm
Box height	207mm
Terminal height	212mm
Battery Weight	18Kg
Connection Torque	7~9Nm



DISCHARGING DATA

FH200: CONSTANT POWER DISCHARGE DATA - Watts per cell (W/cell) at 25°C

End vol. V/cell	Minutes															
	1	3	5	10	15	30	45	60	120	180	240	300	360	480	600	1200
1.60	498	411	367	262	207	126	89.8	73.8	38.6	28.5	22.0	18.1	16.0	12.1	10.2	5.57
1.65	486	401	358	257	206	125	89.3	73.4	38.5	28.3	21.9	18.1	15.9	12.1	10.2	5.55
1.67	476	393	352	255	203	124	88.7	73.0	38.3	28.3	21.8	18.1	15.9	12.0	10.2	5.54
1.70	460	382	343	251	200	122	87.9	72.5	38.0	28.2	21.8	18.0	15.9	12.0	10.1	5.53
1.75	428	358	326	239	194	120	86.8	71.4	37.5	27.9	21.6	17.9	15.8	12.0	10.1	5.49
1.80	358	305	284	216	175	113	81.7	66.9	36.7	27.4	21.3	17.7	15.6	11.9	9.96	5.42

FH200: CONSTANT CURRENT DISCHARGE DATA - Current (A) at 25°C

End vol. V/cell	Minutes															
	1	3	5	10	15	30	45	60	120	180	240	300	360	480	600	1200
1.60	296	239	208	143	112	66.1	46.3	37.9	19.6	14.5	11.1	9.20	8.03	6.10	5.22	2.81
1.65	274	224	197	139	110	64.6	45.6	37.5	19.5	14.4	11.0	9.10	7.94	6.05	5.17	2.79
1.67	262	215	191	136	107	63.4	45.0	37.1	19.3	14.3	11.0	9.06	7.91	6.03	5.15	2.78
1.70	254	209	186	134	105	62.6	44.6	36.8	19.1	14.2	10.9	9.03	7.89	6.01	5.13	2.77
1.75	231	192	173	126	100	61.1	43.7	36.0	18.8	14.0	10.8	8.94	7.80	5.97	5.08	2.75
1.80	190	161	149	111	89.7	56.5	40.9	33.5	18.2	13.7	10.6	8.79	7.67	5.91	5.00	2.69



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