

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH700
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 185Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 700Watts/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: 46.25 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
- Maximum Discharge Current: 1100A
- Short Circuit Current (IEC60896-21/22): 5050A
- Internal Resistance (IEC60896-21/22): 2.45mΩ

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

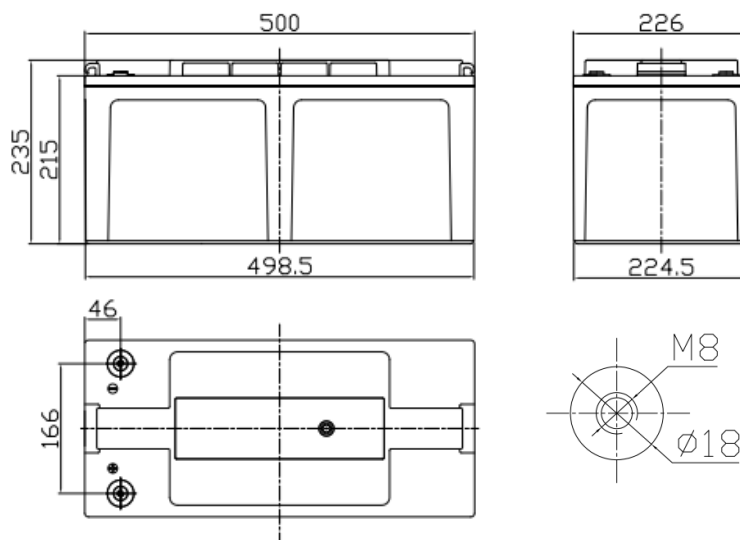
MANUFACTURING CERTIFICATES

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

FH700 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH700
Length	500mm
Width	226mm
Height	235mm
Battery Weight	59.8Kg
Connection Torque	10~12Nm



DISCHARGING DATA

FH700: 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	1075	900	704	428	307	253	142	103	79.9	66.6	57.9	44.1	36.0	18.7
1.65	1048	884	702	424	305	252	142	102	79.6	66.3	57.7	43.9	35.9	18.6
1.67	1037	878	700	423	304	251	142	102	79.4	66.1	57.5	43.8	35.8	18.6
1.70	1021	870	689	421	303	250	141	101	79.0	65.8	57.3	43.7	35.7	18.6
1.75	969	844	674	414	298	246	139	99.7	77.7	64.8	56.4	43.1	35.4	18.4
1.80	879	790	644	401	290	238	136	96.3	75.2	62.8	54.7	41.9	34.7	18.2

FH700: 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	625	510	392	228	157	125	69.4	49.6	38.6	32.1	28.0	21.1	18.4	9.44
1.65	603	498	385	224	154	124	68.8	49.1	38.2	31.8	27.7	20.9	18.2	9.40
1.67	593	493	381	223	153	123	68.3	48.7	37.9	31.4	27.4	20.7	18.1	9.38
1.70	586	490	378	222	152	123	68.0	48.5	37.6	31.2	27.2	20.5	18.0	9.36
1.75	536	462	363	216	149	120	67.0	47.6	37.0	30.7	26.8	20.3	17.8	9.29
1.80	467	425	343	207	144	116	65.1	46.0	35.8	29.7	25.9	19.7	17.5	9.18



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