

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH450
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 115Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 450Watts/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: 0.25 C₂₀ 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: 920A
- Short Circuit Current (IEC60896-21/22): 3390A
- Internal Resistance (IEC60896-21/22): 3.72mΩ

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

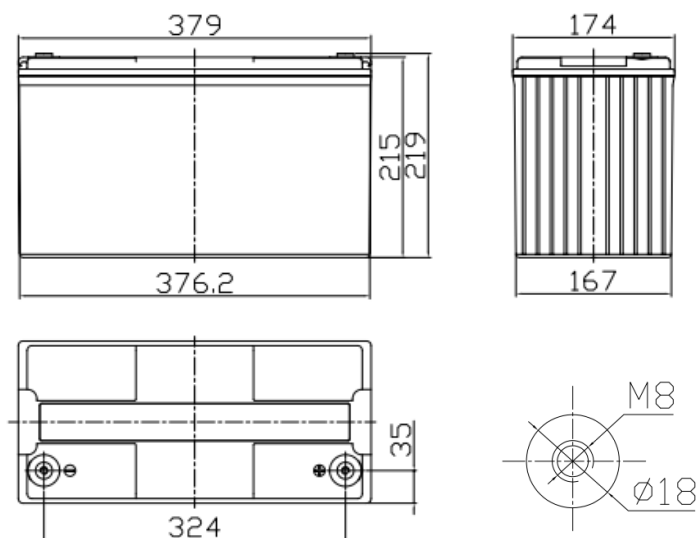
MANUFACTURING CERTIFICATES

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

FH450 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH450
Length	379mm
Width	174mm
Box height	215mm
Terminal height	219mm
Battery Weight	37.5Kg
Connection Torque	10~12Nm



DISCHARGING DATA

FH450: CONSTANT POWER DISCHARGE DATA - Watts per cell (W) 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	1182	985	869	608	467	280	194	159	85.0	57.7	44.5	36.8	32.3	24.5	20.7	11.3
1.65	1153	960	848	597	465	278	193	158	84.6	57.4	44.3	36.7	32.2	24.4	20.6	11.3
1.67	1111	929	824	587	460	275	192	157	84.4	57.3	44.3	36.6	32.1	24.4	20.6	11.2
1.70	1048	882	789	573	454	272	191	156	83.9	57.1	44.2	36.6	32.1	24.4	20.5	11.2
1.75	941	797	720	534	430	260	184	152	83.0	56.6	43.9	36.3	31.9	24.3	20.4	11.1
1.80	770	666	618	477	389	242	175	147	81.3	55.6	43.2	35.9	31.5	24.2	20.2	11.0

FH450: 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	709	575	489	332	253	146	100	84.2	44.9	30.3	23.4	19.3	16.8	12.8	10.8	6.11
1.65	649	536	466	323	247	143	98.6	83.1	44.3	30.0	23.1	19.1	16.6	12.7	10.7	6.07
1.67	607	504	444	313	242	141	97.6	82.4	44.0	29.9	23.0	19.0	16.5	12.6	10.7	6.04
1.70	578	483	429	306	239	139	96.9	81.9	43.8	29.8	22.9	18.9	16.5	12.6	10.6	6.03
1.75	507	428	384	281	223	132	92.9	79.1	43.0	29.3	22.6	18.7	16.3	12.5	10.5	6.00
1.80	408	351	324	247	199	121	87.6	76.2	41.8	28.6	22.2	18.4	16.0	12.4	10.4	5.86



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