

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH400
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 100Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 400Watts/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: 800A
- Short Circuit Current (IEC60896-21/22): 2920A
- Internal Resistance (IEC60896-21/22): 4.36mΩ

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

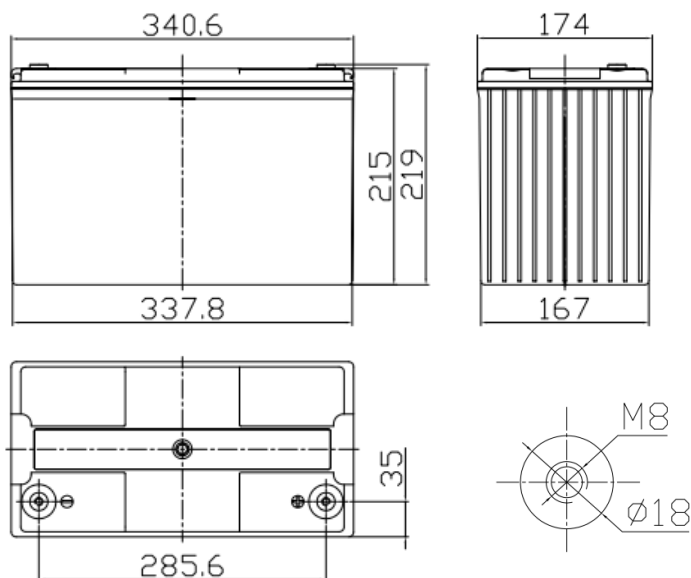
MANUFACTURING CERTIFICATES

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

FH400 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH400
Length	340.6mm
Width	174mm
Box height	215mm
Terminal height	219mm
Battery Weight	33.3Kg
Connection Torque	10~12Nm



DISCHARGING DATA

FH400: 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	1028	856	774	542	416	250	173	141	75.7	51.4	39.6	32.7	28.5	21.8	18.4	10.0
1.65	1002	835	755	532	414	247	172	140	75.4	51.1	39.5	32.6	28.4	21.8	18.3	10.0
1.67	966	807	734	523	410	245	171	140	75.1	51.0	39.4	32.6	28.4	21.7	18.3	10.0
1.70	912	767	702	510	404	242	170	139	74.7	50.9	39.3	32.5	28.4	21.7	18.3	9.98
1.75	818	693	641	475	383	231	164	135	73.9	50.4	39.0	32.4	28.2	21.7	18.2	9.91
1.80	669	579	550	425	346	215	156	131	72.4	49.5	38.5	32.0	27.9	21.5	18.0	9.77

FH400: 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	617	500	436	296	225	130	89.2	73.2	39.0	26.4	20.3	16.8	14.6	11.1	9.40	5.12
1.65	565	465	415	287	220	128	87.8	72.3	38.5	26.1	20.1	16.6	14.5	11.0	9.32	5.08
1.67	528	438	395	278	216	125	86.9	71.6	38.2	26.0	20.0	16.5	14.4	11.0	9.28	5.05
1.70	503	420	382	273	212	124	86.2	71.2	38.0	25.9	19.9	16.5	14.4	11.0	9.25	5.04
1.75	441	372	341	250	198	117	82.7	68.8	37.4	25.5	19.7	16.3	14.2	10.9	9.15	5.00
1.80	354	305	288	220	177	108	78.0	66.2	36.4	24.9	19.3	16.0	14.0	10.8	9.01	4.90



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