

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH250
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 70Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 250Watts/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: 17.5 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: 560A
- Short Circuit Current (IEC60896-21/22): 1980A
- Internal Resistance (IEC60896-21/22): 6.45mΩ

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

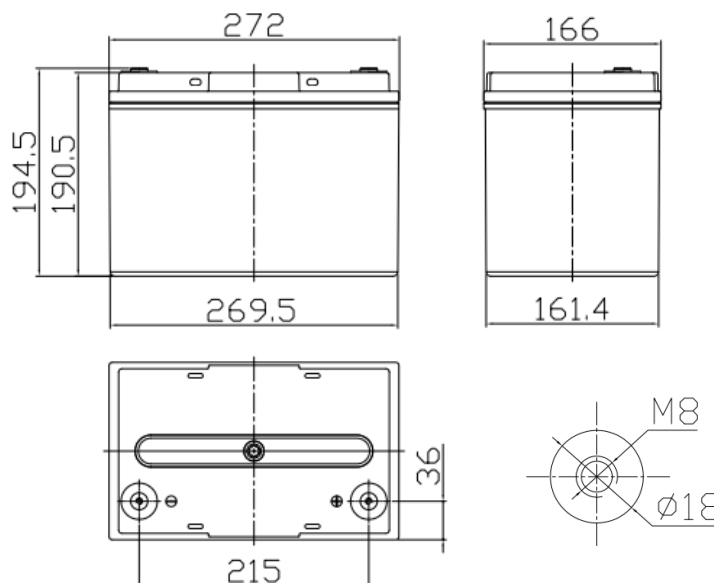
MANUFACTURING CERTIFICATES

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- ISO45001 Workplace Safety and Health

FH250 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH250
Length	272mm
Width	166mm
Box height	191mm
Terminal height	195mm
Battery Weight	22.4Kg
Connection Torque	10~12Nm



DISCHARGING DATA

FH250: 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	509	347	260	154	106	87.3	49.4	35.5	27.7	23.2	20.2	15.5	13.0	7.11
1.65	496	341	258	152	105	86.8	49.2	35.3	27.6	23.1	20.2	15.4	13.0	7.09
1.67	488	338	256	151	105	86.6	49.0	35.3	27.6	23.1	20.1	15.4	13.0	7.08
1.70	476	333	253	150	105	86.2	48.7	35.2	27.5	23.0	20.1	15.4	12.9	7.06
1.75	446	317	246	147	102	84.7	48.4	35.0	27.4	22.9	20.0	15.3	12.9	7.01
1.80	404	291	228	141	98.7	81.7	47.8	34.7	27.1	22.6	19.8	15.2	12.7	6.92

FH250: 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	290	192	142	80.4	54.8	45.0	25.2	18.0	14.1	11.7	10.3	7.78	6.79	3.58
1.65	273	184	138	78.5	53.6	44.2	24.9	17.8	13.9	11.6	10.2	7.72	6.72	3.55
1.67	264	181	135	77.5	53.3	43.9	24.7	17.8	13.8	11.6	10.1	7.70	6.69	3.54
1.70	259	178	133	76.8	53.1	43.6	24.5	17.7	13.8	11.5	10.1	7.68	6.68	3.53
1.75	237	167	127	74.8	51.5	42.6	24.2	17.5	13.7	11.4	10.0	7.62	6.61	3.50
1.80	212	150	117	70.6	49.3	40.8	23.7	17.3	13.4	11.2	9.83	7.55	6.50	3.43



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