

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH540
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 150Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 540Watts/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: 37.5 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: 1050A
- Short Circuit Current (IEC60896-21/22): 3660A
- Internal Resistance (IEC60896-21/22): 3.43mΩ

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

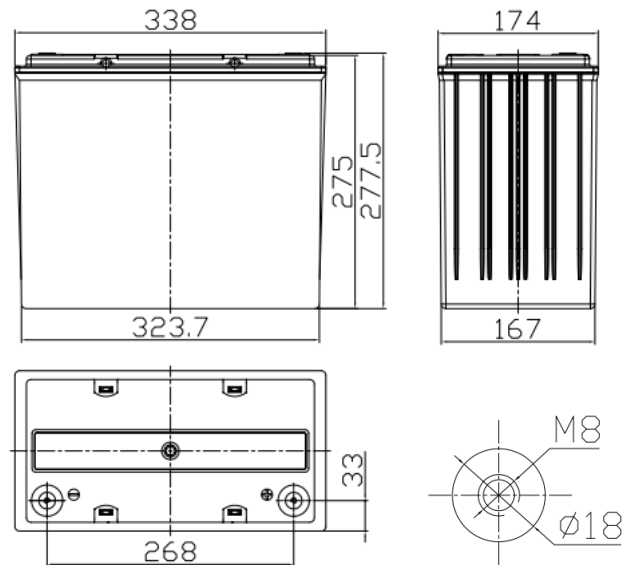
MANUFACTURING CERTIFICATES

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

FH540 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH540
Length	338mm
Width	174mm
Box height	275mm
Terminal height	277.5mm
Battery Weight	43.9Kg
Connection Torque	10~12Nm



DISCHARGING DATA

FH540: 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	909	686	553	340	250	201	103	71.9	55.4	45.7	40.7	33.1	27.9	15.2
1.65	886	673	550	337	249	201	102	71.6	55.2	45.6	40.5	33.0	27.8	15.2
1.67	866	661	540	333	248	200	101	71.3	55.1	45.5	40.5	33.0	27.8	15.2
1.70	836	644	526	327	245	198	101	71.0	54.9	45.4	40.4	32.9	27.7	15.1
1.75	769	604	498	320	242	195	99.9	70.4	54.5	45.2	40.2	32.8	27.6	15.0
1.80	684	535	450	297	230	190	97.7	69.3	53.8	44.7	39.8	32.7	27.2	14.8

FH540: 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	536	384	301	178	126	101	52.4	36.6	28.1	23.2	20.6	16.7	14.1	7.67
1.65	497	364	293	174	125	101	51.6	36.2	27.8	22.9	20.4	16.6	14.0	7.61
1.67	473	352	283	170	125	100	51.0	35.9	27.6	22.8	20.3	16.5	13.9	7.58
1.70	458	344	277	167	123	99.4	50.6	35.7	27.5	22.8	20.2	16.5	13.9	7.56
1.75	414	318	258	163	122	97.9	50.0	35.2	27.2	22.5	20.0	16.3	13.7	7.50
1.80	360	277	231	149	115	94.7	48.5	34.5	26.7	22.2	19.7	16.2	13.5	7.35



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