

BATTERY SPECIFICATIONS

- Battery Technology: Valve Regulated Lead Acid AGM Battery
- Battery Nomenclature: FH300
- Nominal Voltage: 12V
- Nominal Capacity @20hr to 1.75V/cell at 25°C: 75Ah
- Nominal Power @15min to 1.67V/cell at 25°C: 300Watts/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: 18.75 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: 600A
- Short Circuit Current (IEC60896-21/22): 2260A
- Internal Resistance (IEC60896-21/22): 5.62mΩ

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

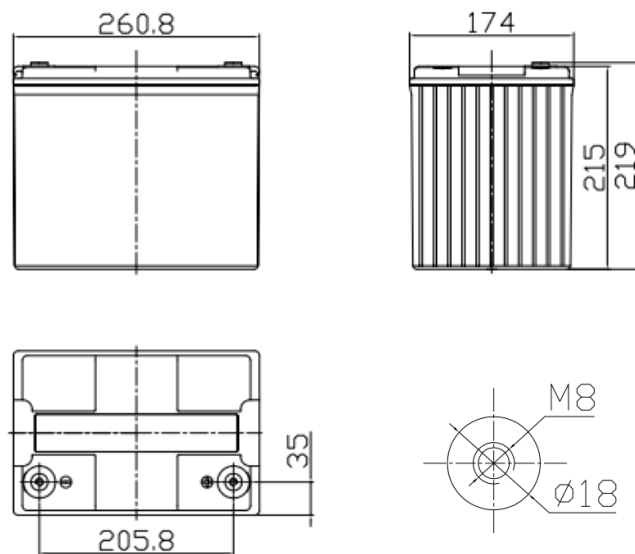
MANUFACTURING CERTIFICATES

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

FH300 DATA SHEET

BATTERY DIMENSIONS AND WEIGHT

Dimensions	FH300
Length	260.8mm
Width	174mm
Box height	215mm
Terminal height	219mm
Battery Weight	25.7Kg
Connection Torque	10~12Nm



DISCHARGING DATA

FH300: 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	771	649	580	406	312	187	130	106	56.8	38.5	29.7	24.6	21.5	16.4	13.8	7.54
1.65	752	633	566	399	310	186	129	105	56.5	38.3	29.6	24.5	21.5	16.3	13.8	7.51
1.67	725	612	550	392	307	184	128	105	56.3	38.3	29.6	24.4	21.2	16.3	13.7	7.50
1.70	684	581	527	382	303	181	127	104	56.1	38.2	29.5	24.4	21.2	16.3	13.7	7.49
1.75	613	525	481	357	287	174	123	102	55.4	37.8	29.3	24.3	21.1	16.2	13.6	7.43
1.80	502	439	413	319	260	161	117	98.5	54.3	37.1	28.8	24.0	20.8	16.2	13.5	7.33

FH300: 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	463	379	327	222	169	97.8	66.9	54.9	29.3	19.8	15.2	12.6	10.9	8.34	7.05	3.84
1.65	424	353	311	215	165	95.7	65.8	54.2	28.9	19.6	15.1	12.4	10.8	8.28	6.99	3.81
1.67	396	332	296	209	162	93.9	65.2	53.7	28.7	19.5	15.0	12.4	10.7	8.25	6.96	3.79
1.70	377	318	286	205	159	92.8	64.7	53.4	28.5	19.4	15.0	12.4	10.7	8.23	6.94	3.78
1.75	331	282	256	188	149	88.0	62.0	51.6	28.0	19.1	14.8	12.2	10.6	8.16	6.86	3.75
1.80	266	231	216	165	133	81.0	58.5	49.7	27.3	18.6	14.5	12.0	10.4	8.09	6.75	3.67



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