

ESH 200-12

(AGM + Gel + FR)

Pasted High Technology
 Electrolyte Suspension
 For Longer Service Life

INTRODUCTION

ESH Series (Gel+FR) are designed for general-purpose high rate applications such as UPS, Telecom, and Electrical Utilities. With 10 years Design Life, the batteries comply to the most popular international standards. The series is engineered to provide performance reliability and consistency over the life of the product. The battery uses silica gel to immobilize the electrolyte inside the battery.

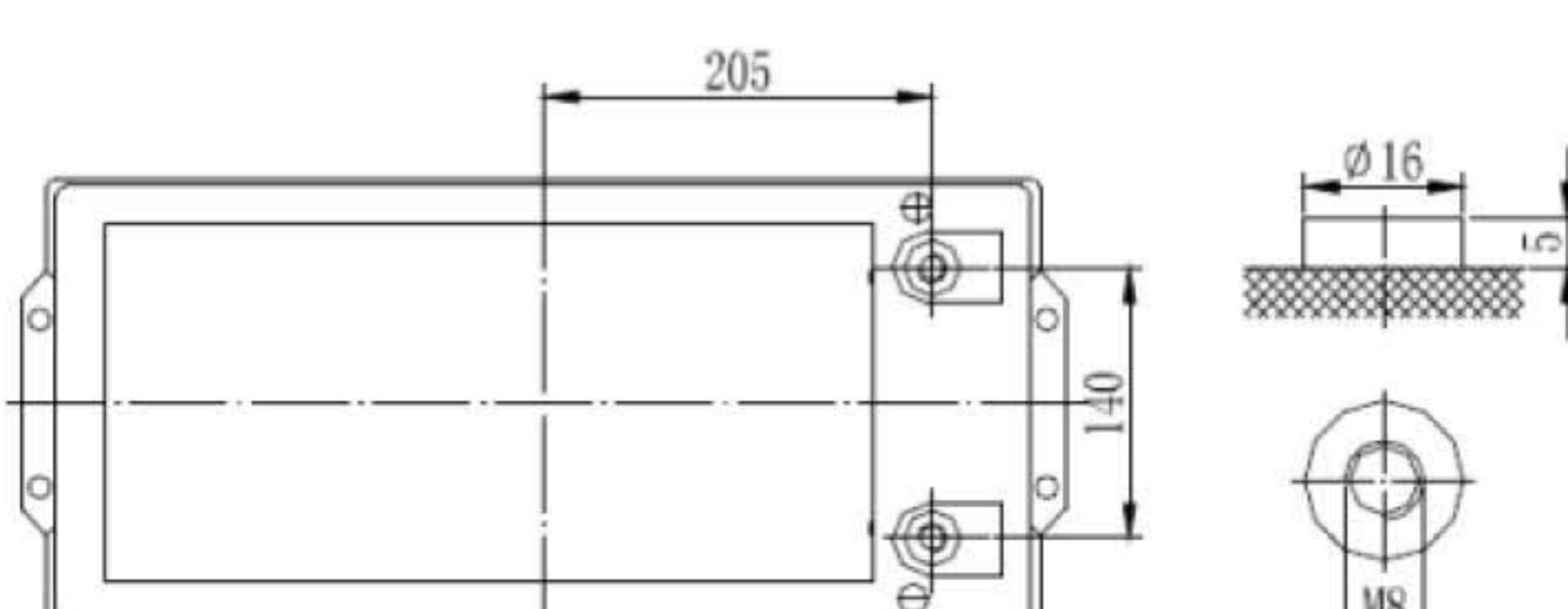
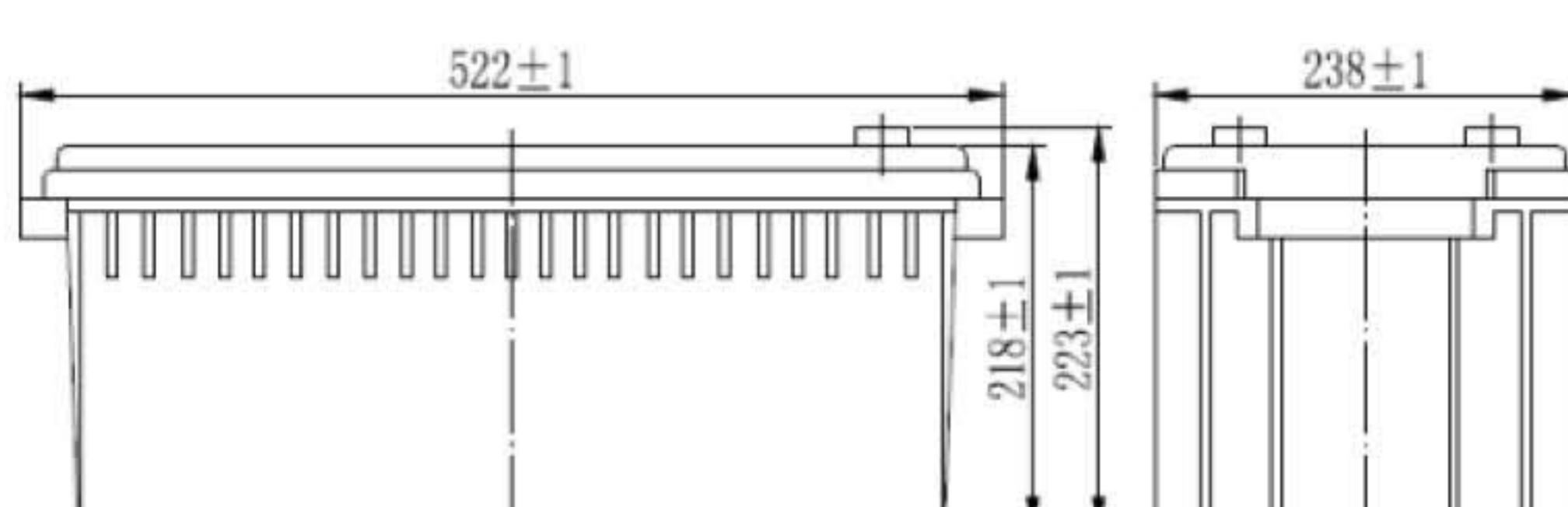
In order to stay in competition with the international battery market, Global has established capital and technical ties with the world's most renowned battery manufacturers, such as Yuasa Corporation of Japan, Hagen Batteries AG. of Germany, and SAFT of France.

TECHNICAL FEATURES

1. 10 years Design Life @ 25°C
2. V0 Class Flame Retardant ABS Container
3. Lead-tin-Calcium alloy grid for long service life, in Float and Cyclic
4. Lower Internal Resistance
5. High Power Density
6. High Reliability
7. Low Pressure Venting System
8. Heavy-Duty Grids
9. High Recovery Capacity
10. Absorptive Glass Mat System (AGM System)
11. Proven Silica Gel Technology improves Battery Cyclic Life

APPLICATIONS

1. UPS Application
2. Telecom Application
3. Medical Instruments
4. Camera & Photographic
5. Personal Computers
6. Lighting Equipment
7. Security Alarm System



SPECIFICATION

Nominal Voltage		12V
Capacity (10HR, 25°C)		200Ah
Dimension	Length	522mm (20.55inch)
	Width	238mm (9.37inch)
	Height	218mm (8.58inch)
	Total Height	223mm (8.78inch)
Approx Weight		65kg (143.3bs)
Design Life		10 Years

CHARACTERISTICS

Capacity 25°C(77°F)	10 Hour Rate	200 Ah
	5 Hour Rate	183.5 Ah
	1 Hour Rate	138 Ah
Internal resistance		3mΩ
Self-discharge (20°C)	1 month	3% of capacity declined
	Discharge	-20°C~60°C
	Charge	-10°C~60°C
Storage		-20°C~60°C
Maximum discharge current		1000A(5s)
Short Circuit Current		3500A
Maximum charging current		60A
Charge Methods (Constant Voltage Charge 77°F(25°C)) - Cyclic Use	Cycle Use 2.30VPC to 2.35V	
	Temp. compensation - 30mV/°C	
Charge Methods (Constant Voltage Charge 77°F(25°C)) - Standby Use	Standby Use 2.25VPC to 2.27VPC	
	Temp. compensation - 20mV/°C	

CONSTANT CURRENT DISCHARGE (Amperes) at 25°C

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	440.00	358.00	210.00	138.00	53.10	39.00	20.50	10.70
1.65V	414.00	337.00	203.00	135.00	52.00	38.20	20.40	10.65
1.70V	390.00	316.00	195.00	132.00	51.00	37.50	20.30	10.60
1.75V	364.00	295.00	188.00	129.00	49.80	36.70	20.20	10.55
1.80V	334.00	274.00	180.00	126.00	48.40	35.90	20.00	10.50

CONSTANT POWER DISCHARGE (Watts per cell) at 25°C

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	756.00	611.00	402.00	287.00	266.00	145.00	103.00	74.30
1.65V	719.00	591.00	387.00	282.00	261.00	142.00	102.00	73.70
1.70V	681.00	572.00	372.00	276.00	256.00	139.00	100.00	73.10
1.75V	641.00	553.00	357.00	270.00	250.00	136.00	98.80	72.60
1.80V	609.00	520.00	342.00	265.00	245.00	132.00	97.70	72.00