

ESH 200-12 AGM

12V - 200Ah

High Rate Discharge Series

INTRODUCTION

Rocket ESH Series is designed for the application which requires high power output. ESH series can deliver 50% more power than ESC Series of Rocket Batteries. This is achieved by optimizing the grid plate design and by using advanced plate paste formula.

Through its constant research and development, Global has continued to lead its nation's storage battery industry. From the beginning, Global's motto has been to provide its customers with "more powerful and durable batteries". Therefore, Global has been in the pursuit of quality advanced technology in the battery manufacturing business.

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

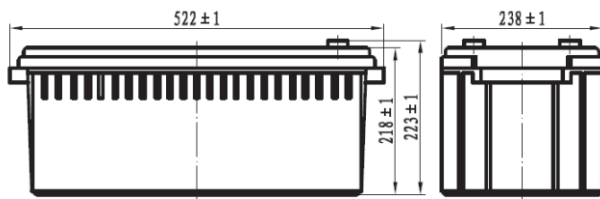
- Non-Spillable Sealed Construction
- Absorbent Glass Mat System (AGM System)
- ABS (Acrylonitrile Butadiene Styrene) container and cover
- Gas Recombination
- Maintenance-Free Operation
- Low Pressure Venting System
- Heavy - Duty Grids
- Low Self-Discharge - Long Shelf Life
- Wide Operating Temperature Range

APPLICATIONS

- UPS
- Telecom Communication Equipments
- Fire Alarm & Security Systems
- Medical Instruments
- Emergency Lighting
- Computer Backup

COMPLAINTS STANDARD

- JIS C8702, BS 6290/4 and IEC 896/2
- Eurobat Guide/HF
- ISO9001/ISO14000

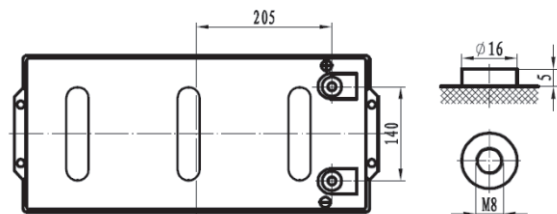


SPECIFICATION

Nominal Voltage		12V
Capacity (20HR, 25°C)		200Ah
Dimension	Length	522mm (20.55inch)
	Width	238mm (9.37inch)
	Height	218mm (8.58inch)
	Total Height	223mm (8.78inch)
Approx Weight		67kg (143.3lbs)
Design Life		10 Years

Capacity 25°C (77°F)	20 hour rate	200 Ah
Capacity (W) 1.60V, 20°C	10 min	890
Internal resistance (Fully charge, 25°C)		2.2mΩ
Self-discharge (20°C)	1 month	Remaining Capacity:97%
Operating temperature range	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Maximum discharge current		77°F(25°C) 1300A(5 Sec.)
Short circuit current		3500A
Charge Methods (Constant Voltage Charge 77°F(25°C)) - Cyclic Use		Cycle Use 14.4 to 14.7V
		Max. charging Current 60A
Charge Methods (Constant Voltage Charge 77°F(25°C)) - Standby Use		Temp. compensation - 30mV/°C
		Standby Use 13.6-13.8V
		Temp. compensation - 20mV/°C

THE BATTERY CONTAINER AND COVER ARE AVAILABLE BOTH IN ABS plastic and Flame Retardant (FR).



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CONSTANT CURRENT DISCHARGE (Amperes) at 25°C

End Point Volts/Cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60V	523	431	357	312	283	250	226	207	188	174	161
1.65V	494	408	338	296	268	238	215	197	179	165	154
1.70V	466	386	320	280	254	225	203	187	170	157	146
1.75V	437	364	301	264	239	212	192	176	161	149	139
1.80V	421	351	292	257	233	207	187	172	158	146	136

End Point Volts/Cell	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	113	89.4	75.1	65.5	50.9	42.1	35.7	31.1	27.6	25	22.8	19.9	10
1.65V	108	85.5	71.8	62.7	48.8	40.4	34.3	29.9	26.6	24	22	19.2	9.69
1.70V	103	81.5	68.6	59.9	46.7	38.7	32.8	28.6	25.5	23	21.1	18.5	9.36
1.75V	98	77.6	65.3	57.1	44.5	37	31.4	27.4	24.4	22.1	20.2	17.8	9.02
1.80V	96	76.0	64.0	56	43.7	36.3	30.8	26.9	24	21.7	19.9	17.5	8.9

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

End Point Volts/Cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60V	890	733	608	533	483	426	383	350	322	299	280
1.65V	857	707	587	515	467	413	372	340	313	291	272
1.70V	824	681	567	498	452	399	360	329	303	282	265
1.75V	790	656	546	480	436	386	348	319	294	274	257
1.80V	757	630	525	462	420	372	336	308	284	265	249

End Point Volts/Cell	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	202	162	139	123	97.2	81.7	69.6	61	54.5	49.5	45.5	39.4	20.4
1.65V	196	158	135	120	94.9	79.8	68.1	59.7	53.4	48.5	44.6	38.7	20.1
1.70V	191	154	132	117	92.6	78	66.6	58.4	52.3	47.5	43.7	38	19.8
1.75V	185	150	128	114	90.3	76.1	65	57.1	51.1	46.5	42.8	37.3	19.4
1.80V	180	146	125	111	88.1	74.3	63.5	55.8	50	45.5	41.9	36.6	19.1

