

ESH 75 -12 AGM

12V - 75Ah

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)		75 Ah
Dimension	Length	258mm (10.2inch)
	Width	166mm (6.54inch)
	Height	206mm (8.11inch)
	Total Height	215mm (8.46inch)
Approx Weight		24.0kg (52.9lbs)
Design Life		10 Years

CHARACTERISTICS

Capacity 25°C (77°F)	20 hour rate	75 Ah
Capacity (W) 1.60V, 20°C	10 min	320
Internal resistance (Fully charge, 20°C)		5.2mOhms
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		68°F(20°C) 700A(5 Sec.)
Charge Methods (Constant Voltage Charge 68°F(20°C)) - Cyclic Use		Cycle Use 14.5 to 14.7V
		Max. charging Current 22.5A Temp. compensation - 30mV/°C
Charge Methods (Constant Voltage Charge 68°F(20°C)) - Standby Use		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	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min
1.60V	233	177	139	115	100	90	79.9	72.3	66.5	61.3	57.1
1.65V	219	167	132	109	94.7	85.3	75.9	68.8	63.2	58.4	54.4
1.70V	205	157	125	103	89.6	80.7	71.8	65.2	60	55.4	51.7
1.75V	191	148	118	96.8	84.4	76.1	67.8	61.6	56.8	52.5	49
1.80V	183	142	114	93.8	82	74.1	66.1	60.1	55.4	51.3	47.9

End Point Volts/Cell	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	53.5	37.6	29.6	24.9	21.7	17	14.1	12.2	10.8	9.8	9	8.36	7.2	3.66
1.65V	51.1	35.9	28.3	23.8	20.8	16.2	13.5	11.7	10.4	9.42	8.65	8.05	6.95	3.54
1.70V	48.6	34.2	27.0	22.7	19.8	15.5	13	11.2	10	9.04	8.31	7.73	6.69	3.42
1.75V	46.1	32.5	25.7	21.6	18.9	14.8	12.4	10.7	9.55	8.66	7.97	7.41	6.43	3.29
1.80V	45.1	31.8	25.2	21.2	18.5	14.6	12.2	10.5	9.38	8.51	7.84	7.3	6.34	3.25

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

End Point Volts/Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min
1.60V	433	320	248	200	172	153	137	125	116	107	100
1.65V	415	308	239	194	166	148	133	121	112	104	97.2
1.70V	396	296	230	187	161	143	128	117	109	101	94.4
1.75V	378	284	222	180	155	138	124	114	105	97.8	91.6
1.80V	359	272	213	173	149	133	120	110	102	94.7	88.8

End Point Volts/Cell	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	94.2	67.7	54.5	46.5	41.2	33	28.1	24.3	21.7	19.6	18.1	16.8	14.5	7.8
1.65V	91.6	65.9	53.0	45.3	40.2	32.3	27.5	23.8	21.2	19.2	17.7	16.4	14.2	7.67
1.70V	89	64.1	51.6	44.1	39.2	31.5	26.9	23.3	20.7	18.8	17.3	16.1	13.9	7.55
1.75V	86.4	62.3	50.2	43.0	38.1	30.7	26.2	22.7	20.2	18.4	16.9	15.8	13.7	7.42
1.80V	83.8	60.5	48.8	41.8	37.1	29.9	25.6	22.2	19.8	18	16.5	15.4	13.4	7.29

