

Global Battery Co. Ltd, South Korea

formerly known as Global & Yuasa Co. Ltd.

ESH 12 - 70W

VRLA-AGM BATTERIES

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 then ESC Series of Rocket Batteries. This is achieved by optimizing the grid plate design and by using advance 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

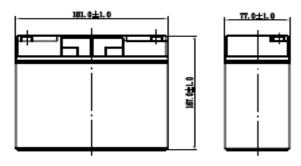
- Non-Spillable Sealed Construction
- Absorptive Glass Mat System (AGM System)
- ABS (Acrylonitrile Butadiene Styrene) container and cover
- Gas Recombination
- Maintenance-Free Operation
- Low Pressure Venting System
- Heavy Duty Grids
- Low Self-Discharge Long Shelf Life
- Wide Operating Temperature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



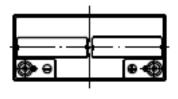
SPECIFICATION

Nominal V	12V	
Capacity (20)	17 Ah	
	Length	181mm (7.13inch)
Dimension	Width	77mm (3.03inch)
	Height	167mm (6.57inch)
	Total Height	167mm (6.57inch)
Approx W	5.90kg (13.0lbs)	
Design L	10 Years	

CHARACTERISTICS

Capacity 25°C (77°F)	20 hour rate	17 Ah				
Capacity (W) 1.60V, 20°C	10 min	105				
Internal resistance (F	ully charge, 20°C)	15mOhms				
Self-discharge (20°C)	1 month	Remaining Capacity:97%				
Operating	Discharge	-20°C~60°C				
temperature range	Charge	-10°C~60°C				
temperature range	Storage	-20°C~60°C				
Maximum disch	arge current	68°F(20°C) 255A(5 Sec.)				
Short circuit	current	800A				
Charge Methods (C	onstant Voltago	Cycle Use 14.5 to 14.9V				
Charge 68°F(20°C	•	Max. charging Current 6.8A				
Charge 00 1 (20 C	.jj - Cyclic Ose	Temp. compensation - 30mV/°C				
Charge Methods (C	onstant Voltage	Standby Use 13.6-13.8V				
Charge 68°F(20°C)	- Standby Use	Temp. compensation - 20mV/°C				
Charge 68°F(20°C)	- Standby Use	Temp. compensation - 20mV/				

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

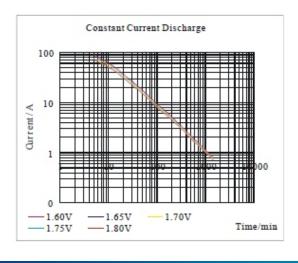
End Point											
Volts/Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min
1.60V	88.9	61.5	48.1	37.7	31.4	27.2	24	21.6	19.7	18	16.7
1.65V	83.6	58.2	45.6	35.7	29.8	25.8	22.8	20.5	18.7	17.2	15.9
1.70V	78.3	54.8	43.1	33.8	28.1	24.4	21.6	19.4	17.8	16.3	15.1
1.75V	73	51.5	40.6	31.8	26.5	23	20.3	18.4	16.8	15.4	14.3
1.80V	69.9	49.6	39.2	30.8	25.8	22.4	19.8	17.9	16.4	15.1	14

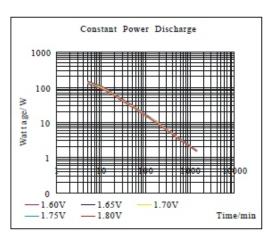
End Point														
Volts/Cell	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	15.6	10.7	8.25	6.79	5.82	4.47	3.65	3.05	2.62	2.3	2.06	1.86	1.56	0.81
1.65V	14.8	10.2	7.89	6.49	5.57	4.29	3.51	2.93	2.52	2.21	1.98	1.79	1.5	0.79
1.70V	14.1	9.7	7.52	6.2	5.32	4.1	3.37	2.81	2.42	2.12	1.89	1.72	1.44	0.76
1.75V	13.4	9.24	7.15	5.9	5.07	3.91	3.22	2.69	2.31	2.03	1.81	1.63	1.38	0.73
1.80V	13.1	9.04	7	5.78	4.97	3.84	3.16	2.64	2.27	1.99	1.78	1.61	1.36	0.72

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	152	105	81.9	63.9	53.2	46	40.7	36.8	33.7	31.2	29.1
1.65V	146	101	79	61.7	51.4	44.5	39.5	35.7	32.7	30.3	28.3
1.70V	139	97.2	76.1	59.6	49.6	43	38.2	34.5	31.7	29.4	27.5
1.75V	133	93.2	73.3	57.4	47.9	41.5	36.9	33.4	30.7	28.5	26.7
1.80V	126	89.3	70.4	55.2	46.1	40	35.6	32.3	29.7	27.6	25.9

End Point														
Volts/Cell	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	27.4	19	14.8	12.3	10.6	8.09	6.58	5.53	4.77	4.21	3.77	3.42	2.93	1.59
1.65V	26.7	18.5	14.4	12	10.3	7.9	6.43	5.41	4.67	4.12	3.7	3.35	2.88	1.57
1.70V	25.9	18	14	11.7	10.1	7.7	6.29	5.29	4.57	4.04	3.62	3.29	2.83	1.54
1.75V	25.2	17.5	13.6	11.3	9.81	7.51	6.14	5.17	4.47	3.95	3.54	3.22	2.77	1.52
1.80V	24.4	17	13.3	11	9.54	7.32	5.99	5.04	4.37	3.86	3.47	3.15	2.72	1.49





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