

ES 7-12

12V - 7Ah

INTRODUCTION

The most advanced technology of ROCKET, Valve Regulated Lead Acid batteries make them highly useful in a broad range of applications. The use of high-purity calcium alloy maximizes the longevity of ROCKET batteries to ensure excellent performance in any circumstances.

ES Series are specially designed to provide better cyclic life and are ideally suited for areas prone to frequent power failures.

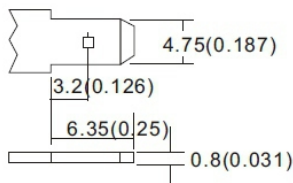
The unique construction coupled with the use of special sealing epoxies and long sealing paths of ROCKET series ensures that no electrolyte leakage can occur from terminals or cases of any ROCKET Batteries. This feature ensures safe & efficient operation of ROCKET batteries in any position.

TECHNICAL FEATURES

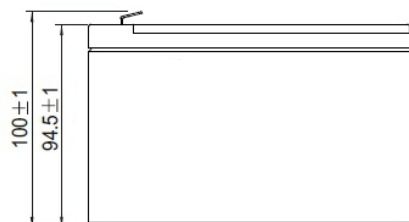
- Non-Spillable Sealed Construction
- Absorptive Glass Mat System (AGM System)
- ABS (Acrylonitrile Butadiene Styrene) container and cover
- Micro millimeter SiO₂ and H₂SO₄ gelled electrolyte technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Maintenance-Free Operation
- Low Pressure Venting System
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Low Self-Discharge - Long Shelf Life
- Wide Operating Temperature Range

APPLICATIONS

- UPS
- Telecom Communication Equipments
- Medical Instruments
- Computer Backup
- Solar Powered Systems.



We have option of terminals with 4.75mm / 6.3mm



SPECIFICATION

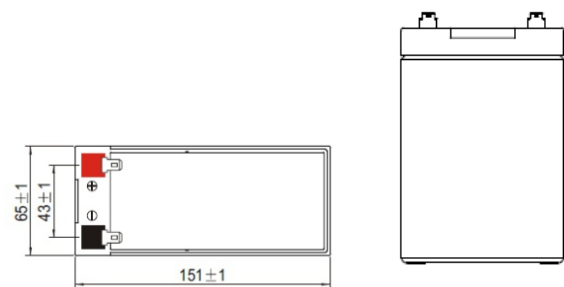
Nominal Voltage		12V
Capacity (20HR, 25°C)		7Ah
Dimension	Length	151mm (5.95inch)
	Width	64.5mm (2.54inch)
	Height	94.5mm (3.72inch)
	Total Height	100mm (3.94inch)
Approx Weight		2.2kg (4.85lbs)
Design Life		7 Years

CHARACTERISTICS

Capacity 25°C (77°F)	20 hour rate	7Ah
	10 hour rate	6.51Ah
	5 hour rate	5.95Ah
	1 hour rate	4.4Ah
Internal resistance (Fully charge, 25°C)		23mΩ
Self-discharge (25°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)105A(5 Sec.)
Charge Methods (Constant Voltage Charge 77°F(25°C)) - Cyclic Use		Cycle Use 14.4 to 15.0V
		Temp.compensation-30mV/°C
Charge Methods (Constant Voltage Charge 77°F(25°C)) - Standby Use		Standby Use 13.5-13.8V
		Temp.compensation-20mV/°C

COMPLAINTS STANDARD

- JIS
- IEC 60896 PART 1 & 2
- BS6290-4,
- Eurobat Guide - HIGH Performance



www.rocketbatteries.net

Above information is subject to change anytime . For more information contact enquiries@rocketbatteries.net

ES 7-12

12V - 7Ah

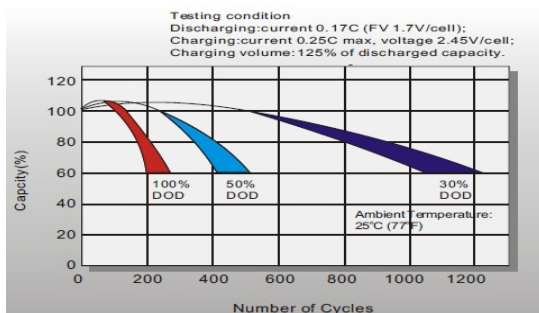
CONSTANT CURRENT DISCHARGE (Amperes) at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.60V	31.7	19.8	14.3	7.85	4.71	2.57	1.88	1.57	1.32	0.699	0.359
1.65V	30.5	19.2	14.1	7.68	4.63	2.54	1.85	1.55	1.31	0.694	0.357
1.67V	29.6	18.9	14.0	7.56	4.58	2.51	1.83	1.53	1.30	0.690	0.355
1.70V	29.1	18.6	13.8	7.47	4.52	2.49	1.82	1.51	1.28	0.687	0.353
1.75V	27.8	18.1	13.5	7.28	4.41	2.45	1.79	1.48	1.24	0.682	0.350
1.80V	26.2	17.3	13.1	7.05	4.25	2.38	1.74	1.44	1.19	0.675	0.346
1.85V	23.1	16.1	12.6	6.54	4.02	2.26	1.65	1.39	1.13	0.667	0.339

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

End Point Volts/Cell	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.60V	54.33	36.50	28.00	14.58	9.23	5.20	3.80	3.15	2.68	1.45	0.74
1.65V	52.83	35.50	27.33	14.40	9.08	5.07	3.72	3.10	2.65	1.44	0.74
1.67V	51.83	34.83	26.83	14.25	8.97	4.98	3.67	3.07	2.63	1.44	0.73
1.70V	51.00	34.33	26.50	14.10	8.87	4.92	3.62	3.05	2.62	1.43	0.73
1.75V	49.00	33.17	25.83	13.58	8.63	4.72	3.48	3.00	2.58	1.42	0.72
1.80V	47.00	31.83	25.17	12.93	8.38	4.52	3.32	2.93	2.53	1.40	0.71
1.85V	43.83	30.00	24.00	12.07	7.70	4.10	3.08	2.85	2.47	1.36	0.69

ES-CYCLE LIFE EXPECTANCY



Discharge Characteristics

