

ESC 100-12

AGM-VRLA
12V - 100Ah

INTRODUCTION

The ESC Series is the most popular series of Rocket batteries and has a proven performance track record of more than 52 years. It has successfully exemplified its quality and reliability in some of the most demanding power conditions by providing relentless backup power supply.

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

COMPLIANCE STANDARDS

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

SPECIFICATIONS

Nominal Voltage		12V
Dimensions	Length	330mm
	Width	173mm
	Height	221mm
	Total Height	221mm
Approx Weight		29.8kg
Design Life		10 Years

CHARACTERISTICS

Capacity		100Ah
Internal Resistance (Fully Charge , 25°C)		Approx.4.5mΩ
Self Discharge (27°C)	1 month	Remaining Capacity: 97%
Operating Temperature Range		-15°C ~ 40°C
Maximum Discharge current		765A (5sec)
Maximum Charging current		25.5A
Charge Methods (Constant Voltage Charge 80.6°F (27°C) - Cyclic Use		Cycle Use 14.2 to 14.9V Temp. Compensation - 30mV/°C
Charge Methods (Constant Voltage Charge 80.6°F (27°C) - Standby Use		Standby Use 13.5 to 13.8V Temp. Compensation - 20mV/°C

CONSTANT CURRENT DISCHARGE CHARACTERISTICS UNIT: (Amperes) at 25°C

F.V/Time	5Min	10Min	15Min	30Min	1HR	3HR	5HR	10HR	20HR
1.60V	261	179	147	87	52	21	15	9	5
1.70V	219	162	139	85	51	21	15	8	4
1.75V	206	157	136	78	51	20	14	8	4
1.80V	173	147	116	77	49	19	14	8	4

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

F.V/Time	5Min	10Min	15Min	30Min	1HR	3HR	5HR	10HR	20HR
1.60V	423	318	273	176	103	43	30	17	9
1.70V	405	308	267	175	101	41	29	16	9
1.75V	387	300	261	173	100	41	29	16	8
1.80V	360	291	255	170	99	40	29	16	8

