



**EnerRocket**<sup>®</sup>  
CONTINUOUSLY SAFEGUARDING

# ESC 250-12 FR

SMF VRLA RECHARGEABLE BATTERY

**LONG  
LIFE  
SERIES**

## APPLICATIONS

- UPS Systems
- Telecommunication Systems
- Fire Alarm Safety & Security Systems
- Medical Equipment

## COMPLIANCE STANDARDS

- IEC 60896 PART 21 & 22
- BS6290-4
- EUROBAT- HIGH Performance

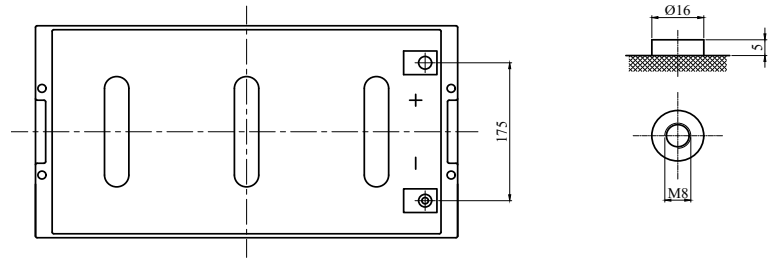
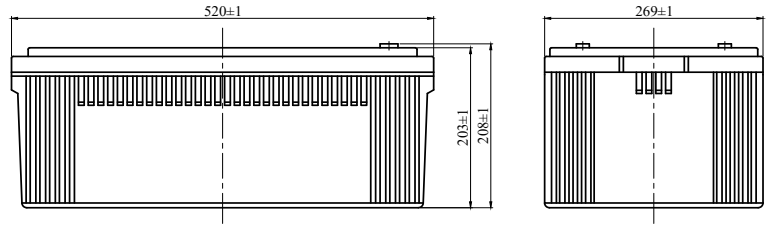
## TECHNICAL FEATURES



- Non-Spillable Sealed Construction
- Absorptive Glass Mat System (AGM System)
- ABS (Acrylonitrile Butadiene Styrene) construction
- Gas Recombination
- Venting System for low internal pressure
- Low Self-Discharge
- Heavy-Duty, Highly Optimized Grids
- High Power Output

## CHARACTERISTICS

Nominal Voltage	12 V	
Design Life	12 Years	
Capacity (25°C)	10 Hour rate	230Ah
Internal Resistance (25°C, 100% Charge)	≤2.8 mΩ	
Self Discharge (20°C)	1 Month	Remaining Capacity 97%
Operating Temperature	Discharge	-20°C - 60°C
	Charge	-10°C - 60°C
	Storage	-20°C - 60°C
Normal Operating Temperature	25°C ± 3°C	
Maximum Discharge current (25°C)	1100A (5sec)	
Maximum Charging current (25°C)	69A	
Short Circuit Current	4300A	
Charge Methods	14.4 to 14.7 V	
Constant Voltage Charge 77°F (25°C) - Cycle use	Temp. Compensation -30mV/°C	
Charge methods	13.4 to 13.8V	
Constant Voltage Charge 77°F (25°C) - Standby Use	Temp. Compensation -20mV/°C	



## SPECIFICATIONS

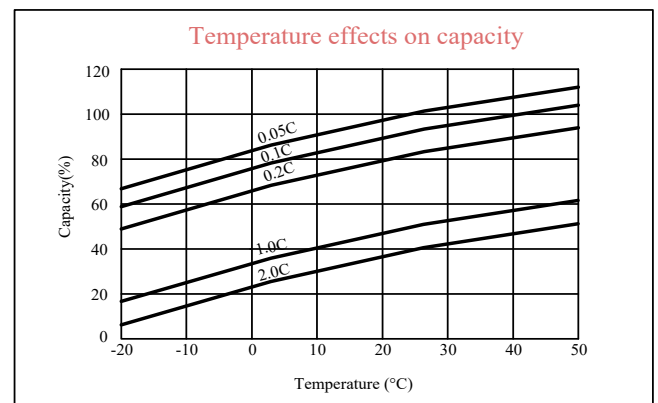
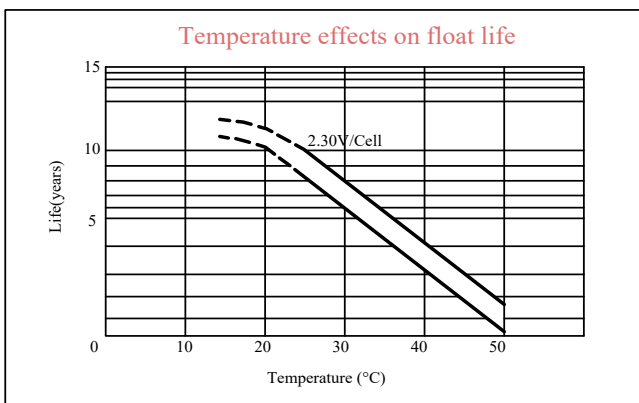
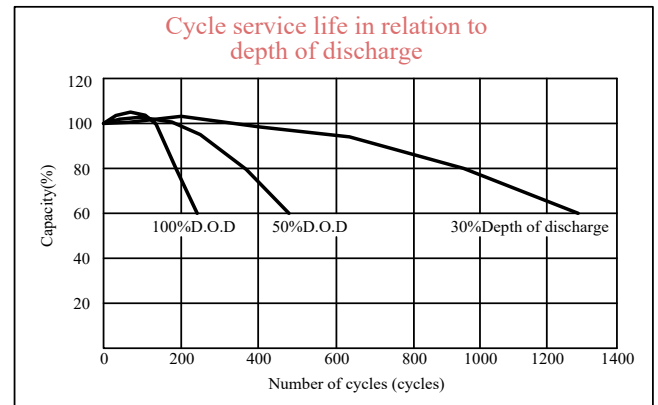
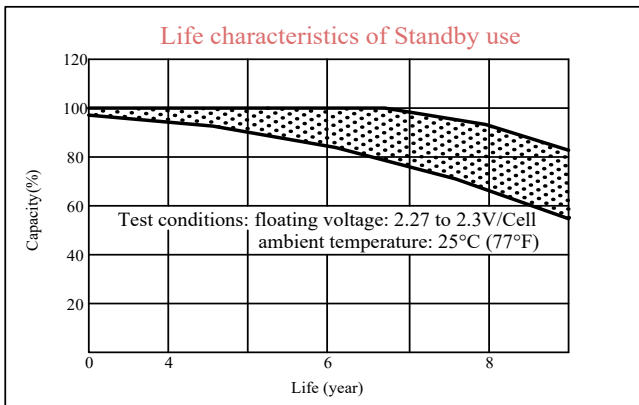
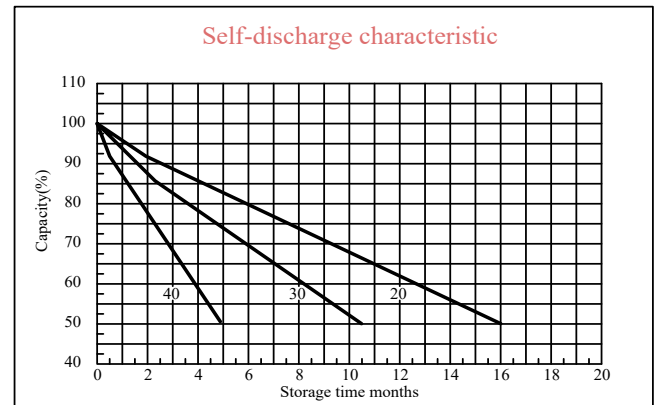
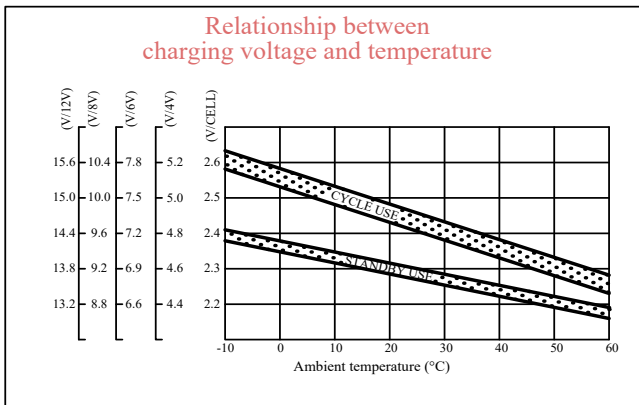
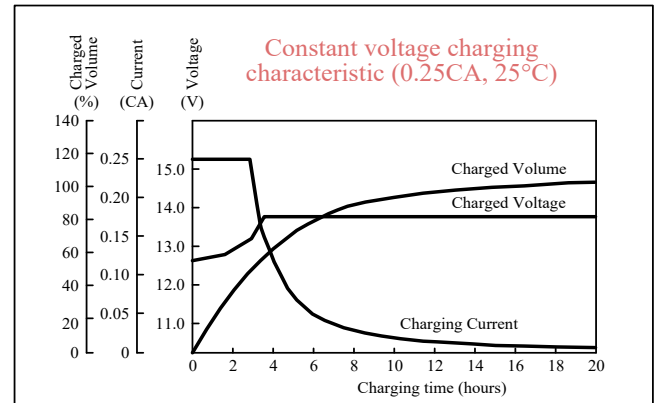
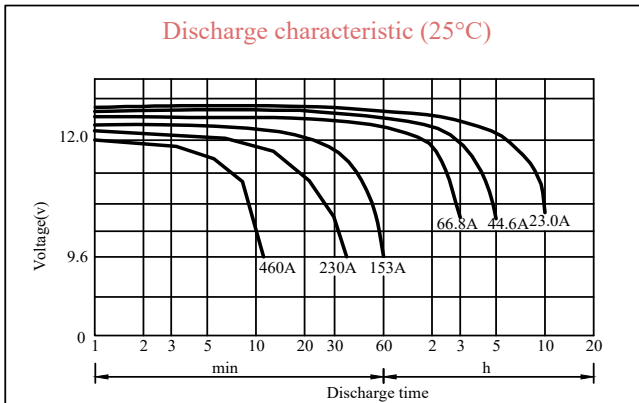
Length	Width	Height	Total Height	Weight (kg)
520mm	269mm	203mm	208mm	72.6 ± 5%

### CONSTANT CURRENT DISCHARGE (Amperes) AT 25°C

End Voltage Volts/Cell	15min	20min	30min	1h	1.5h	2h	3h	4h
1.60	371	307	242	153	111	89.6	68.5	54.0
1.65	367	304	241	151	110	88.8	68.2	53.8
1.70	365	302	240	150	109	88.3	67.8	53.5
1.75	359	298	236	149	108	87.3	66.8	53.0
1.80	348	290	233	148	107	87.0	66.5	52.6

### CONSTANT POWER DISCHARGE (Watts) AT 25°C

End Voltage Volts/Cell	15min	20min	30min	1h	1.5h	2h	3h	4h
1.60	677	573	469	296	213	172	131	103
1.65	673	570	466	294	212	171	130	103
1.70	666	564	462	291	210	169	129	102
1.75	658	558	459	288	208	168	128	101
1.80	649	552	455	284	205	166	126	100



Note:  
GPSGC reserves the right to make changes to the above values without any notice.  
All data and discharge characteristics are average values based on actual discharge cycle tests performed and not minimum values.