



**EnerRocket™**  
CONTINUOUSLY SAFEGUARDING

# ESC 120-12 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

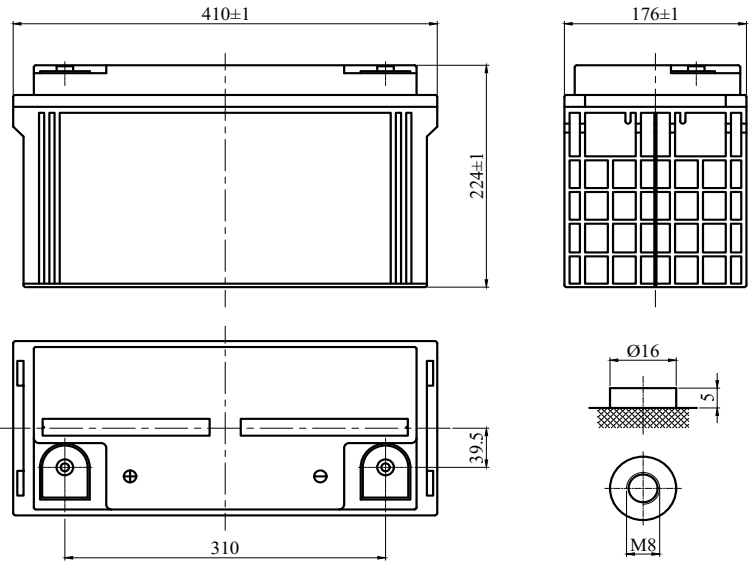
## TECHNICAL FEATURES



- 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	120Ah
Internal Resistance (25°C, 100% Charge)	≤5.3 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)	950A (5sec)	
Maximum Charging current (25°C)	36A	
Short Circuit Current	2250A	
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)
410mm	176mm	224mm	224mm	33.5 ± 5%

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

End Voltage Volts/Cell	15min	20min	30min	1h	1.5h	2h	3h	4h
1.60	209	132.0	117	73.3	53.6	42.2	29.9	24.6
1.65	201	126.7	114	72.8	52.5	41.4	29.3	24.3
1.70	193	121.7	110	71.3	51.4	40.5	28.7	24.1
1.75	184	116.8	106	69.1	50.2	39.5	28.0	24.0
1.80	177	110.9	104	67.0	48.8	38.4	27.2	22.2

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

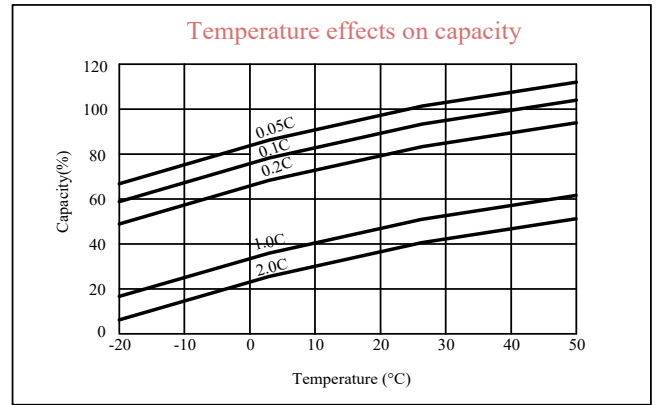
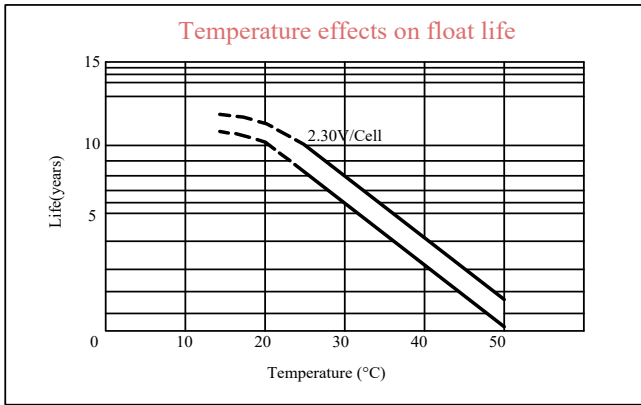
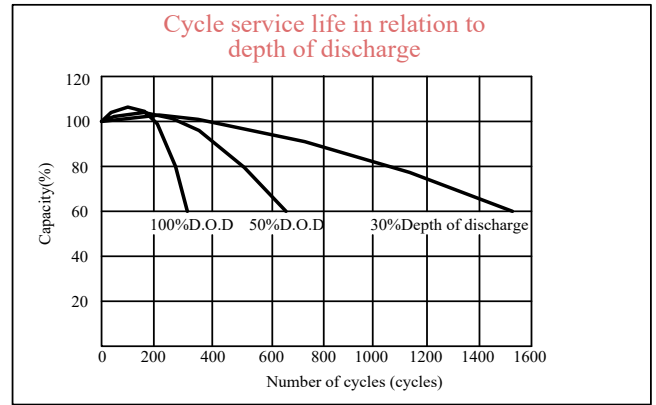
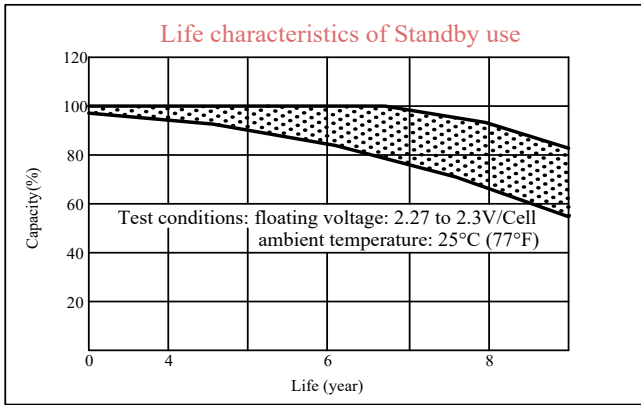
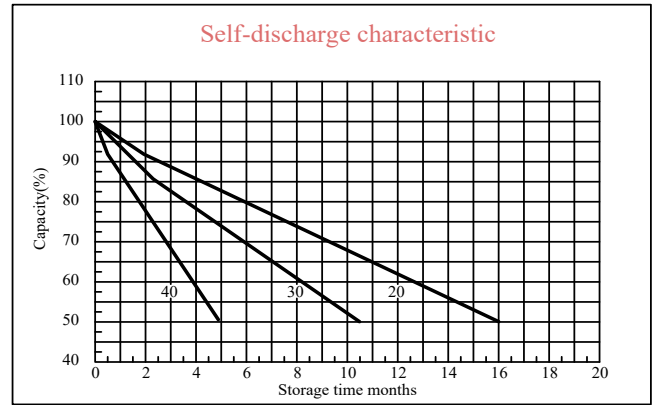
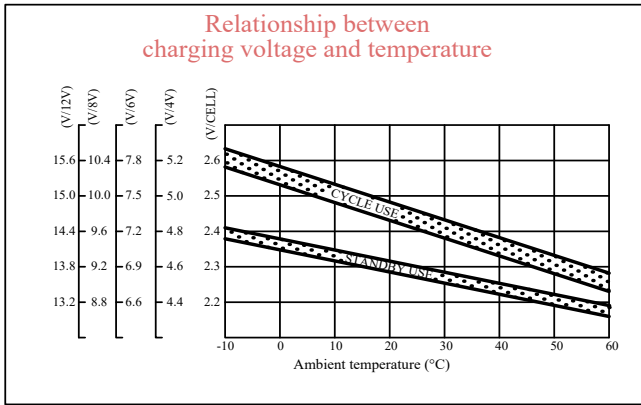
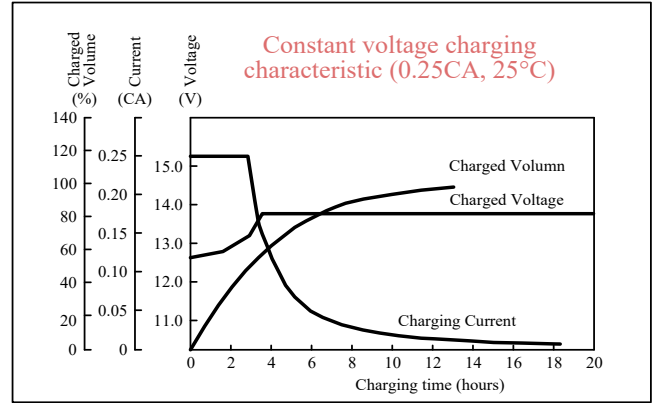
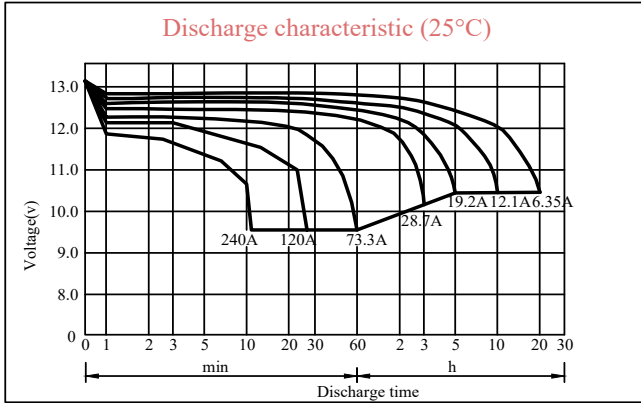
End Voltage Volts/Cell	15min	20min	30min	1h	1.5h	2h	3h	4h
1.60	367	243	225	147	101.2	82	58.0	46.9
1.65	354	228	218	145	99.2	80	57.3	45.5
1.70	343	219	211	143	96.2	79	56.6	44.6
1.75	331	213	204	139	93.8	77	56.0	43.7
1.80	319	203	198	134	91.5	75	55.0	43.0



## ESC 120-12 FR

SMF VRLA RECHARGEABLE BATTERY

**LONG  
LIFE  
SERIES**



Note:  
GPSSGC 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.