



**EnerRocket™**  
CONTINUOUSLY SAFEGUARDING

# ESH 12-540W FR

SMF VRLA RECHARGEABLE BATTERY

**HIGH RATE**  
**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

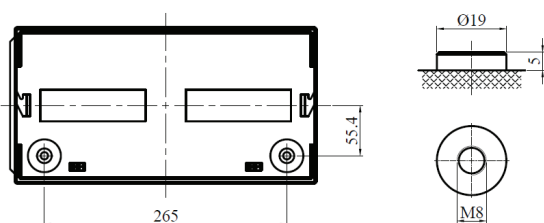
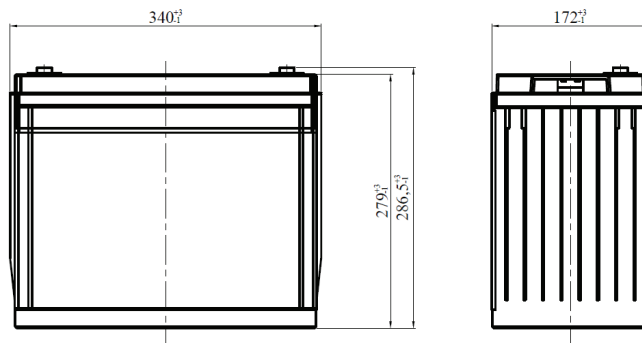
## TECHNICAL FEATURES



- 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	12V	
Design Life	12 Years	
Capacity (25°C)	15min 1.67ECV	<b>155 AH</b>
Internal Resistance(25°C, 100% Charge)	≤3.6 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)	910A (5sec)	
Maximum Charging current (25°C)	45A	
Charge Methods Constant Voltage Charge 25°C Cyclic Use	14.4 to 14.7V	
	Temp.Compensation -30mV/°C	
Charge Methods Constant Voltage Charge 25°C Standby Use	13.4 to 13.8V	
	Temp. Compensation -20mV/°C	



## SPECIFICATIONS

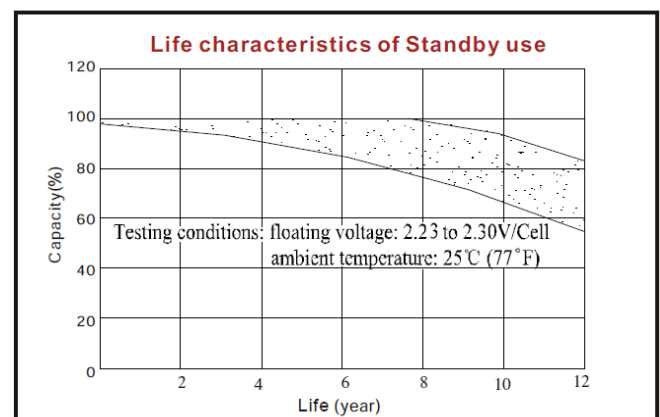
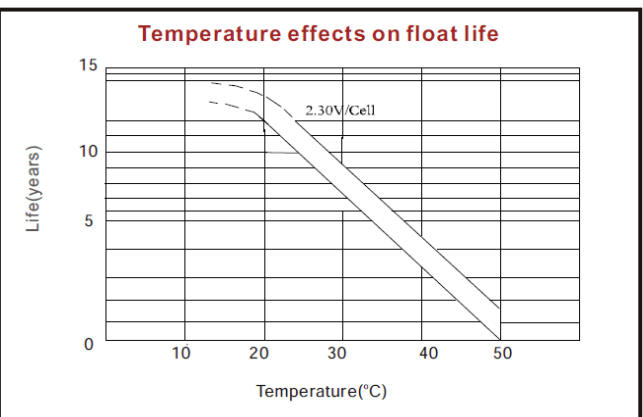
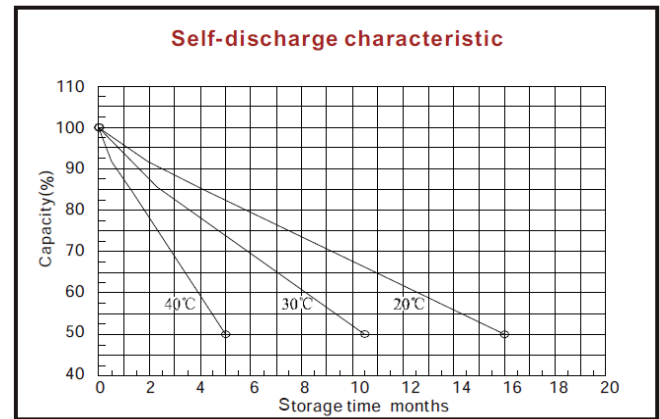
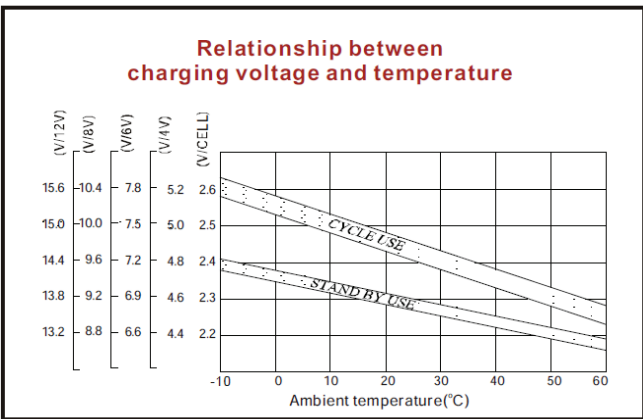
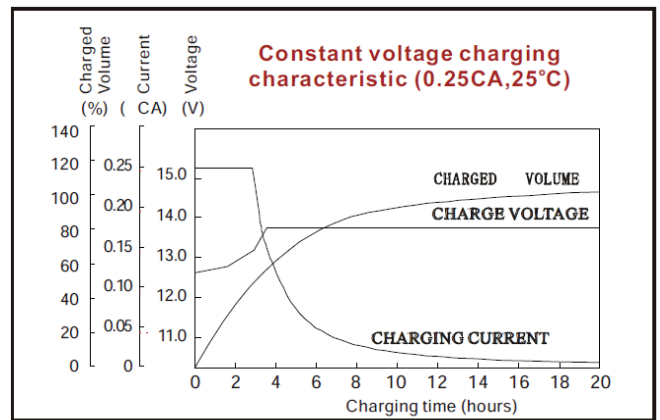
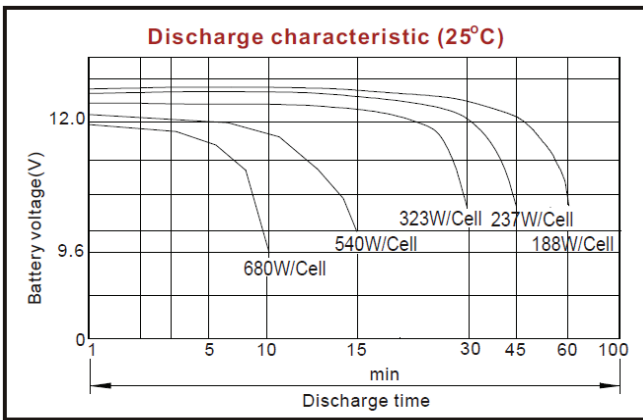
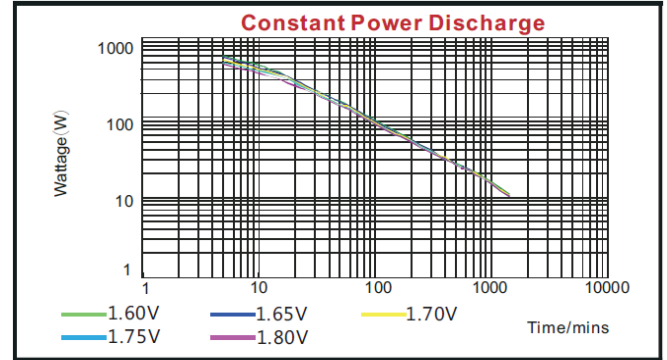
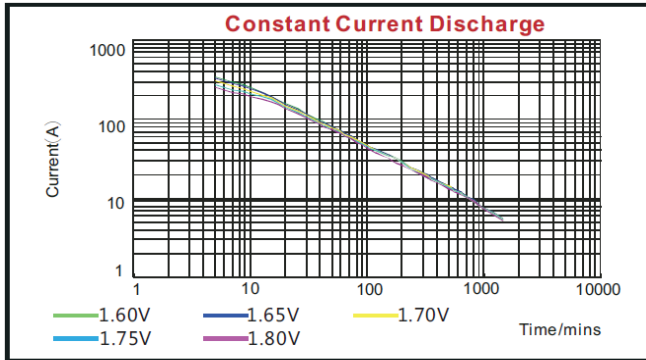
Length	Width	Height	Total Height	Weight (kg)
340mm	172mm	279mm	286.5mm	41.5 ± 5%

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

End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	568	469	358	292	253	217	196	134	103
1.65V	552	456	337	281	246	212	188	130	101
1.67V	546	450	328	276	244	210	185	128	100
1.70V	523	433	318	259	228	198	175	125	99
1.75V	509	416	302	245	215	190	169	122	96
1.80V	492	403	293	235	206	183	161	119	94

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

End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	1104	887	680	564	468	400	358	260	201
1.65V	1078	857	662	547	459	396	350	255	198
1.67V	1067	844	655	540	456	394	347	253	197
1.70V	1035	790	601	491	427	374	331	245	192
1.75V	1004	766	568	473	412	360	323	237	188
1.80V	976	744	534	455	397	347	311	229	184



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.

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