



EnerRocket™
CONTINUOUSLY SAFEGUARDING

ESH 12-500W 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

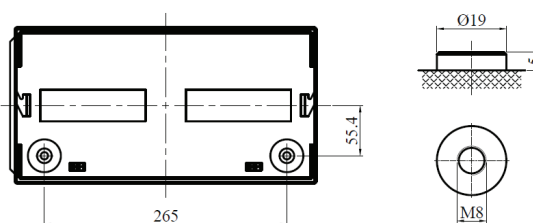
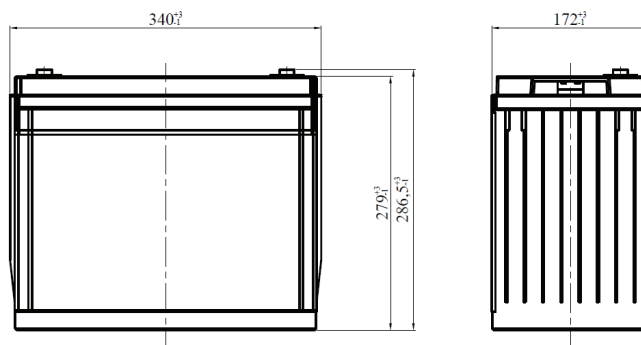
TECHNICAL FEATURES



- 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	145 AH
Internal Resistance(25°C, 100% Charge)	≤3.8 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)	870A (5sec)	
Maximum Charging current (25°C)	42A	
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	40.0 ± 5%

CONSTANT CURRENT DISCHARGE (Amperes) AT 25 °C

End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	520	441	348	276	238	207	179	121	96
1.65V	504	432	327	263	229	198	173	117	92
1.67V	498	428	318	258	226	195	171	116	90
1.70V	486	412	309	251	214	184	161	110	88
1.75V	469	401	298	239	202	176	154	108	85
1.80V	456	387	290	229	195	171	149	105	81

CONSTANT POWER DISCHARGE (Watts) AT 25 °C

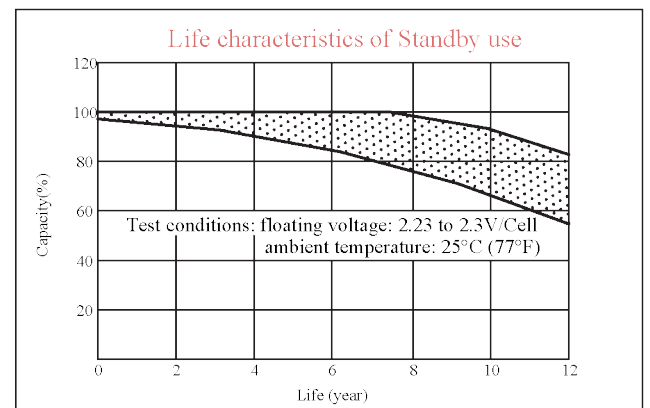
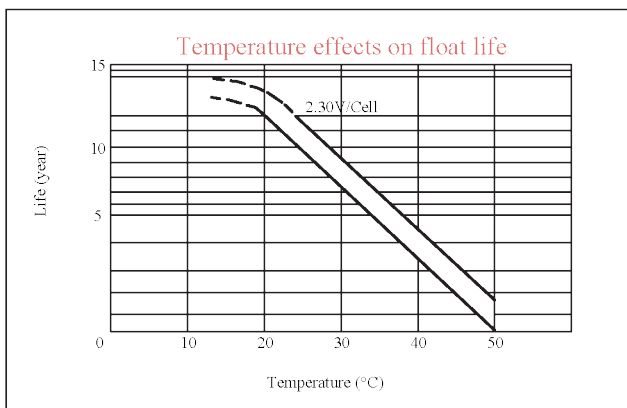
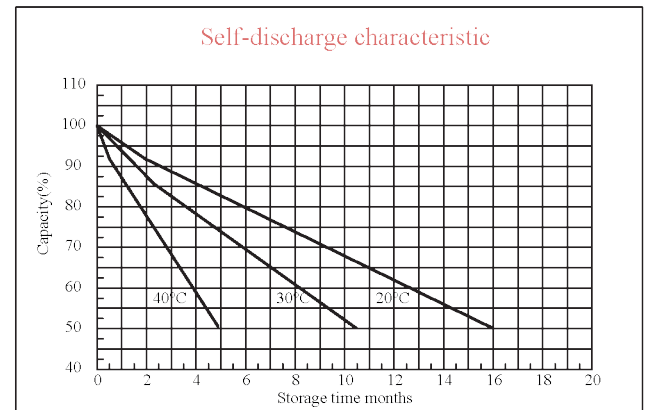
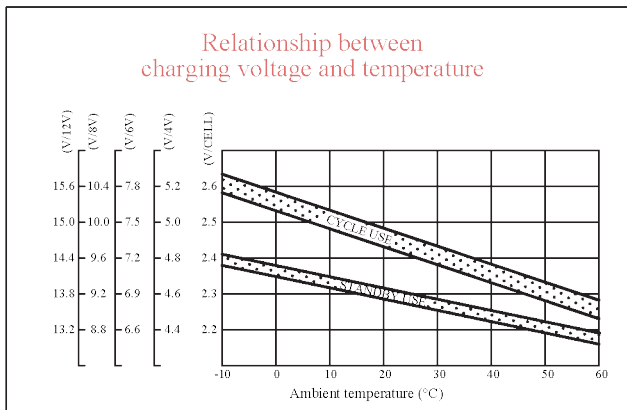
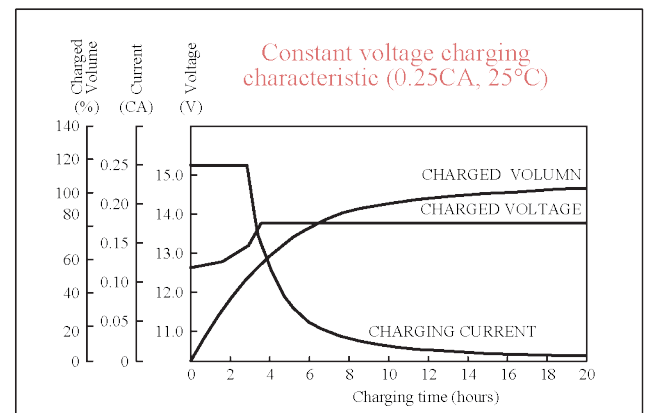
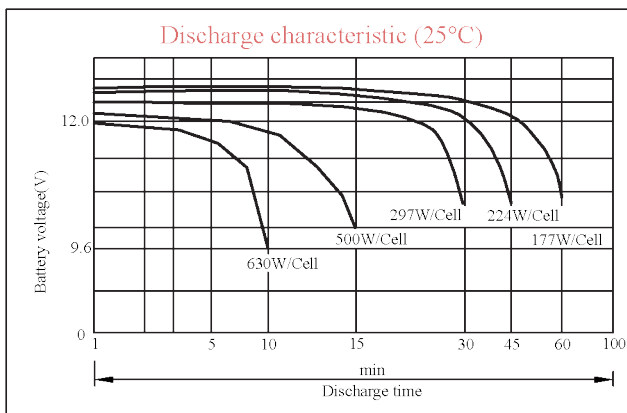
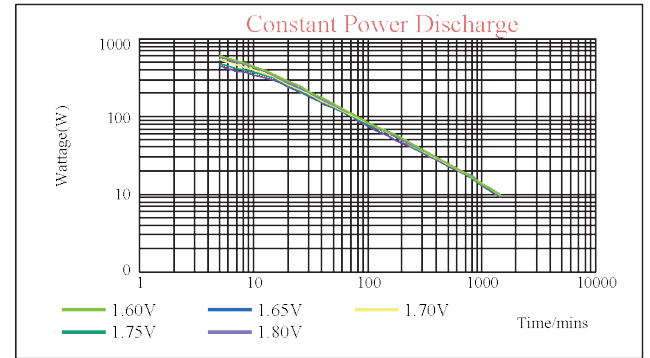
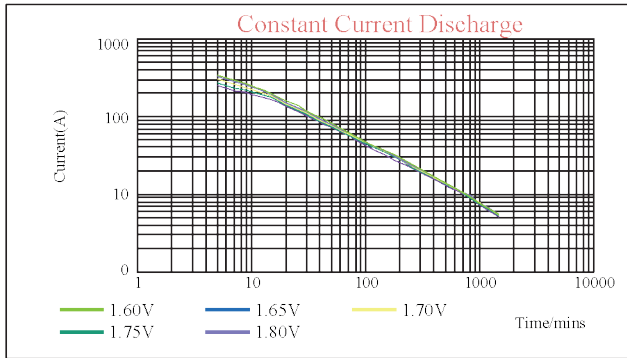
End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	1056	834	630	503	424	371	331	246	189
1.65V	1040	818	614	501	419	364	324	240	187
1.67V	1034	812	607	500	417	361	321	238	186
1.70V	1012	783	568	455	391	347	311	231	182
1.75V	973	759	528	438	381	334	297	224	177
1.80V	944	726	521	421	368	321	287	216	173



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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.