



EnerRocket™
CONTINUOUSLY SAFEGUARDING

ESH 12-320W 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

Design Life as per Eurobat Standards

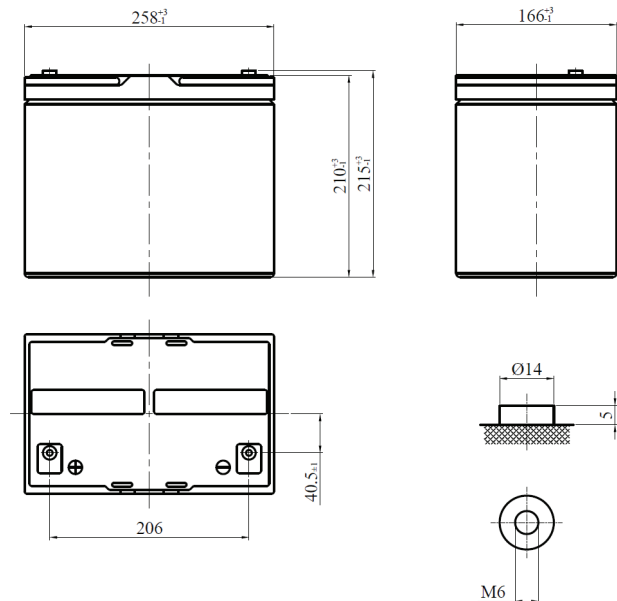
TECHNICAL FEATURES



- Non-Spillable Sealed Construction
- Thin Plate Pure Lead Grid
- 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
- Maintenance Free Operation

CHARACTERISTICS

Nominal Voltage	12V	
Design Life	12 Years	
Capacity (25°C)	15min 1.67ECV	320w
Internal Resistance(25°C, 100% Charge)	≤5.0 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)	670A (5sec)	
Maximum Charging current (25°C)	24A	
Charge Methods	14.4 to 14.7V	
Constant Voltage Charge 25°C	Temp.Compensation -30mV/°C	
Cyclic Use		
Charge Methods	13.4 to 13.8V	
Constant Voltage Charge 25°C	Temp. Compensation -20mV/°C	
Standby Use		



SPECIFICATIONS

Length	Width	Height	Total Height	Weight (kg)
258mm	166mm	210mm	215mm	24.5 ± 5%

CONSTANT CURRENT DISCHARGE (Amperes) AT 25 °C

End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	397	332	242	183	153	130	116	87.8	69.1
1.65V	386	319	231	174	148	127	113	85.2	67.3
1.67V	382	314	227	170	146	126	112	84.2	66.6
1.70V	372	305	216	164	140	122	109	82.2	64.2
1.75V	348	272	198	154	131	113	102	79.1	62.2
1.80V	318	249	183	144	124	108	98	73.6	57.9

CONSTANT POWER DISCHARGE (Watts) AT 25 °C

End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	810	640	432	327	281	241	213	158	124
1.65V	754	598	420	322	273	235	209	155	122
1.67V	732	581	415	320	270	232	207	154	121
1.70V	673	551	386	301	263	228	204	152	119
1.75V	643	500	364	288	249	216	196	150	116
1.80V	583	465	340	273	238	210	188	142	111

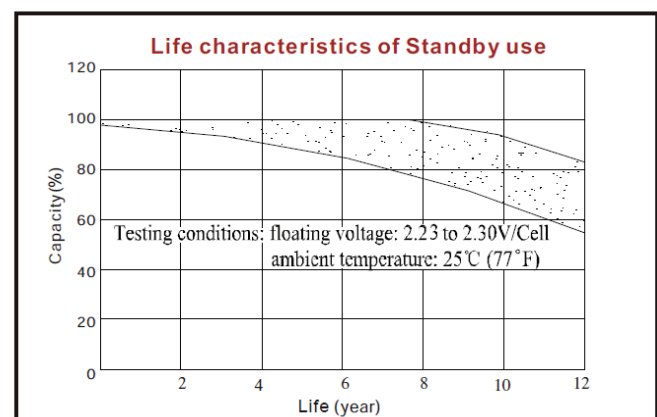
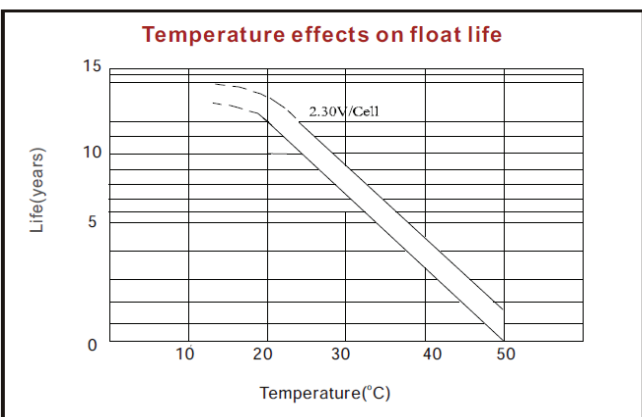
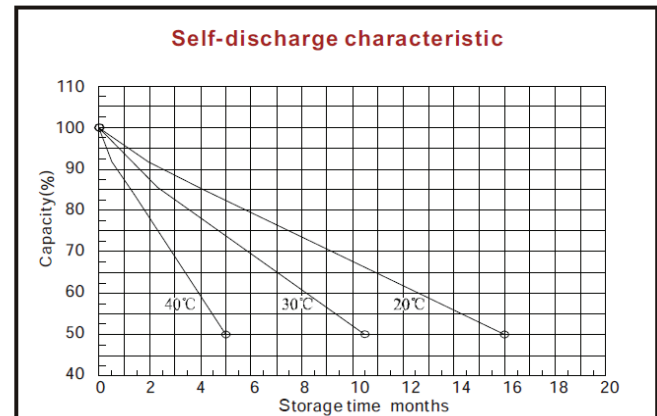
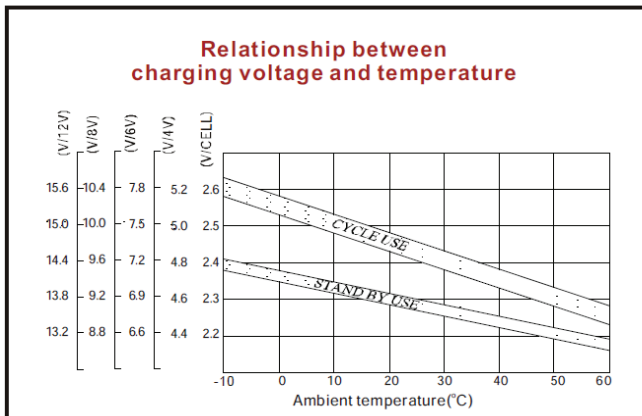
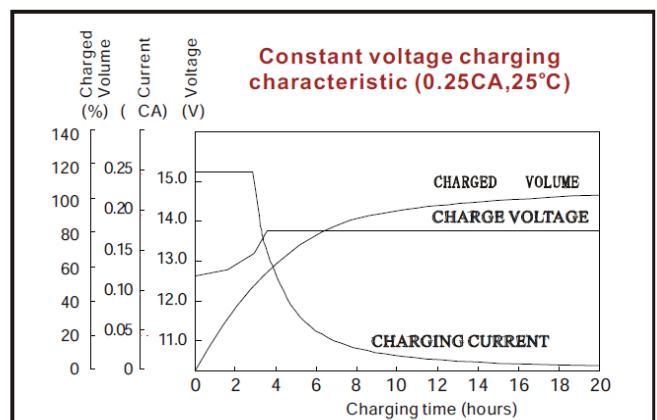
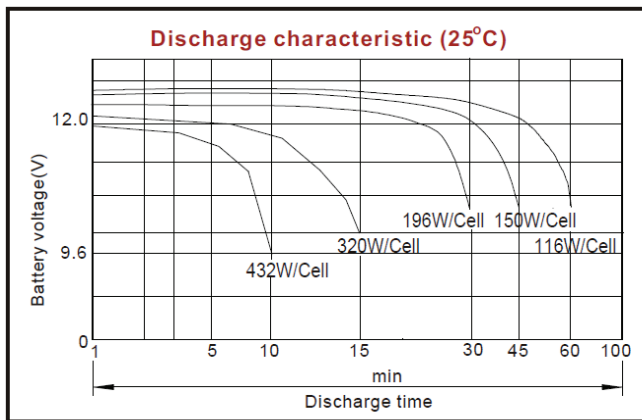
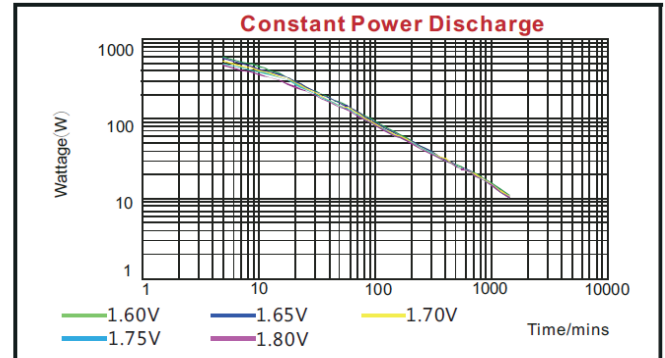
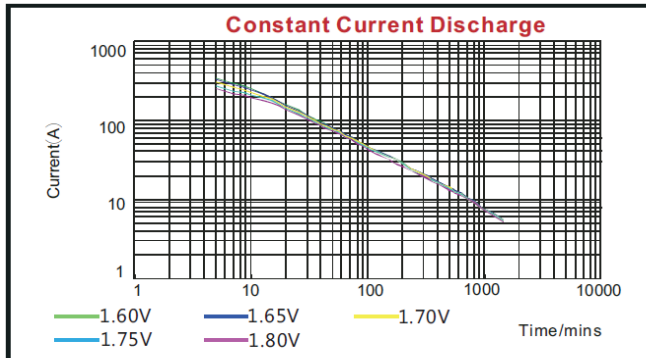


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Note:
GPSGC reserves the right to make changes to the above values without any notice.
All data and discharge characteristics are average values based on actual discharge cycle tests performed and not minimum values.

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