



EnerRocket™
CONTINUOUSLY SAFEGUARDING

ESH 12-560W 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

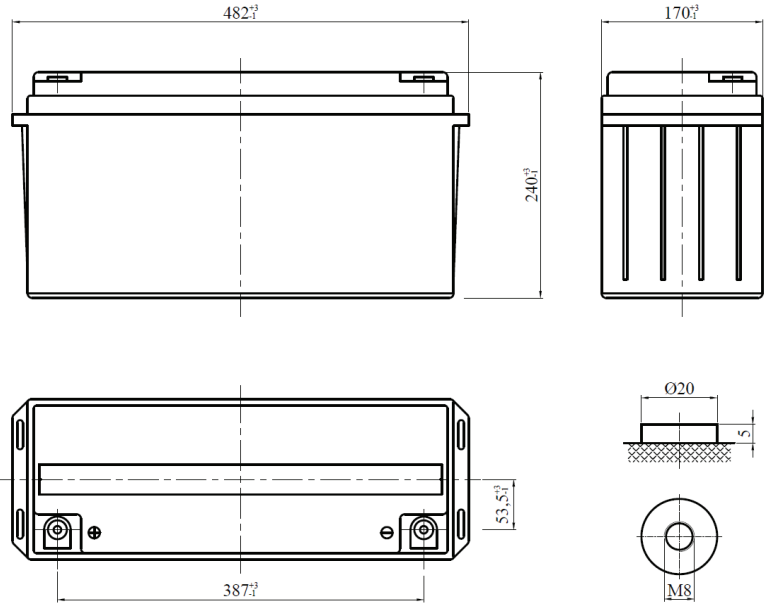
TECHNICAL FEATURES



- 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	630w
Internal Resistance(25°C, 100% Charge)	≤3.5 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)	970A (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)
482mm	170mm	240mm	240mm	45.0 ± 5%

CONSTANT CURRENT DISCHARGE (Amperes) AT 25 °C

End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	597	501	411	370	284	245	208	139	107
1.65V	586	484	392	357	271	237	205	135	105
1.67V	582	477	387	344	266	234	204	133	104
1.70V	561	454	366	331	258	221	191	130	102
1.75V	543	444	354	316	252	218	186	127	101
1.80V	518	436	342	301	242	208	176	124	98

CONSTANT POWER DISCHARGE (Watts) AT 25 °C

End Voltage Volt/Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60V	1147	915	722	678	502	431	370	267	210
1.65V	1130	892	684	654	483	416	362	258	204
1.67V	1123	883	668	630	476	410	359	255	202
1.70V	1103	864	654	606	463	401	347	250	200
1.75V	1076	844	615	579	450	386	333	242	193
1.80V	1047	806	601	552	432	372	320	234	190



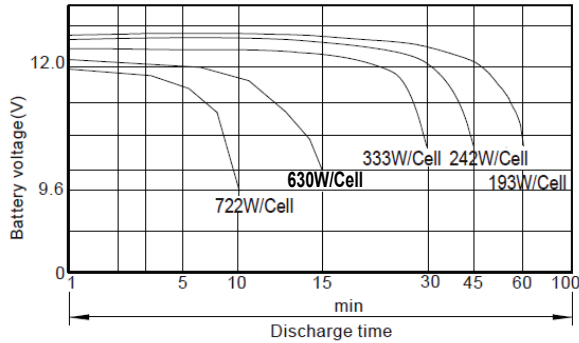
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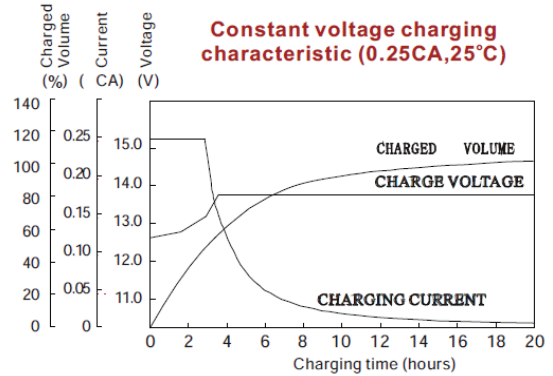
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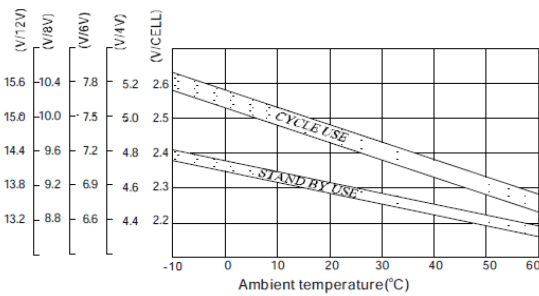
Discharge characteristic (25°C)



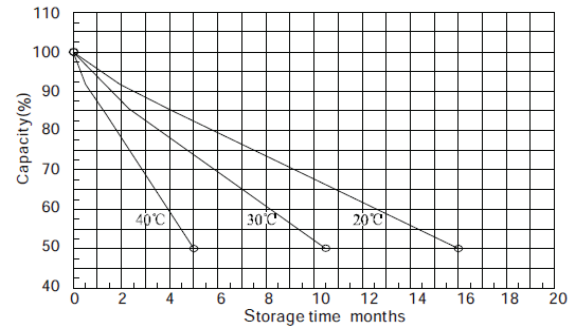
Constant voltage charging characteristic (0.25CA, 25°C)



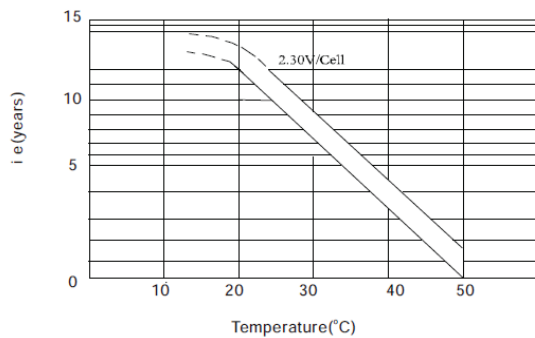
Relationship between charging voltage and temperature



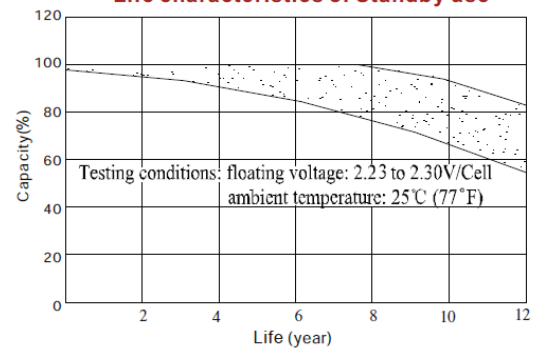
Self-discharge characteristic



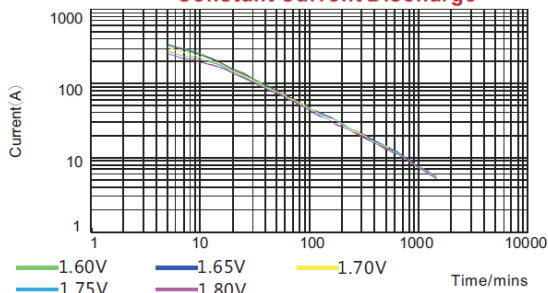
Temperature effects on float life



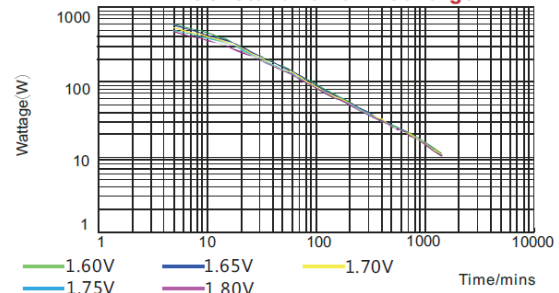
Life characteristics of Standby use



Constant Current Discharge



Constant Power Discharge



Note:

GPSCG 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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