



EnerRocket™
CONTINUOUSLY SAFEGUARDING

ESH 12-820W FR

SMF VRLA RECHARGEABLE BATTERY

HIGH RATE
LONG
LIFE
SERIES

APPLICATIONS

UPS Systems

Critical Data Centre

Fire Alarm Safety & Security Systems

Medical Equipment

COMPLIANCE STANDARDS

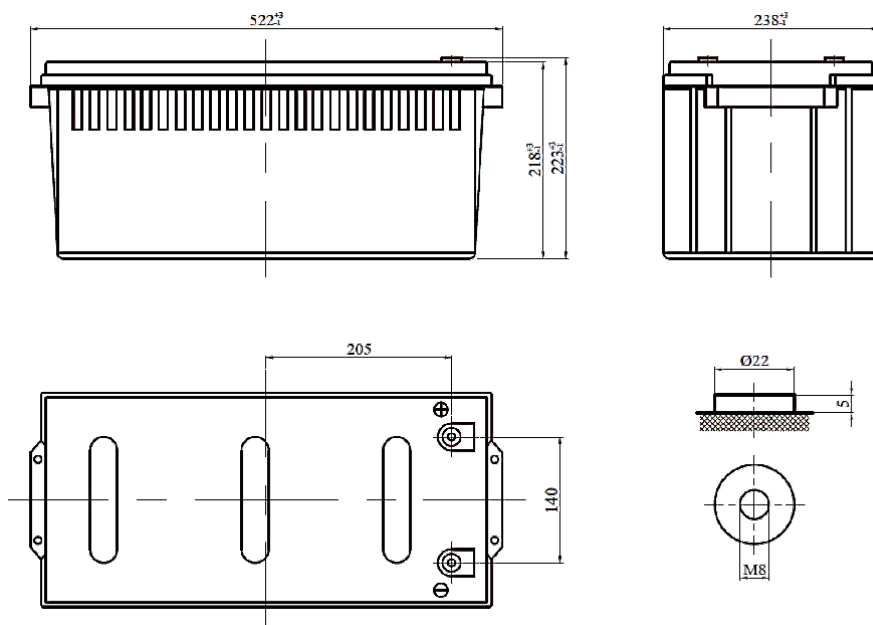
IEC 60896 PART 21 & 22

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



SPECIFICATIONS

Length	Width	Height	Total Height	Weight (kg)
522 mm	238 mm	218 mm	223 mm	67.5 Kg ±5%

CHARACTERISTICS

Nominal Voltage	12 V	
Design Life	12 Years	
Capacity 25°C (77°F)	15min 1.70ECV	820W
Internal Resistance (25°C, 100% Charge)	<2.2 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 ± 2°C	
Maximum Discharge current	1350A (5sec)	
Maximum Charging current	69A	
Charge Methods	14.4 to 14.7V	
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	

CONSTANT CURRENT DISCHARGE (Amperes) AT 25 °C

End Cell Voltage / Cell	3min	5min	10min	15min	20min	25min	30min	45min	60min
1.60	971	756	577	503	413	362	325	222	171
1.65	931	727	558	485	393	341	309	215	167
1.67	915	716	551	478	386	334	303	212	165
1.70	882	699	527	468	374	321	294	204	159
1.75	876	678	501	451	361	308	285	194	151
1.80	862	646	476	402	336	294	271	185	145

CONSTANT POWER DISCHARGE (Watts) AT 25 °C

End Cell Voltage / Cell	3 min	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min
1.60	1486	1300	1038	847	695	610	548	394	305
1.65	1451	1290	1015	842	682	593	537	386	299
1.67	1437	1285	1000	840	678	587	532	383	297
1.70	1402	1225	985	820	655	563	515	373	289
1.75	1376	1160	925	790	632	540	500	362	281
1.80	1347	1135	870	710	588	515	475	352	273



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