



EnerRocket™

CONTINUOUSLY SAFEGUARDING

ESC 150-12 FR

SMF VRLA RECHARGEABLE BATTERY

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

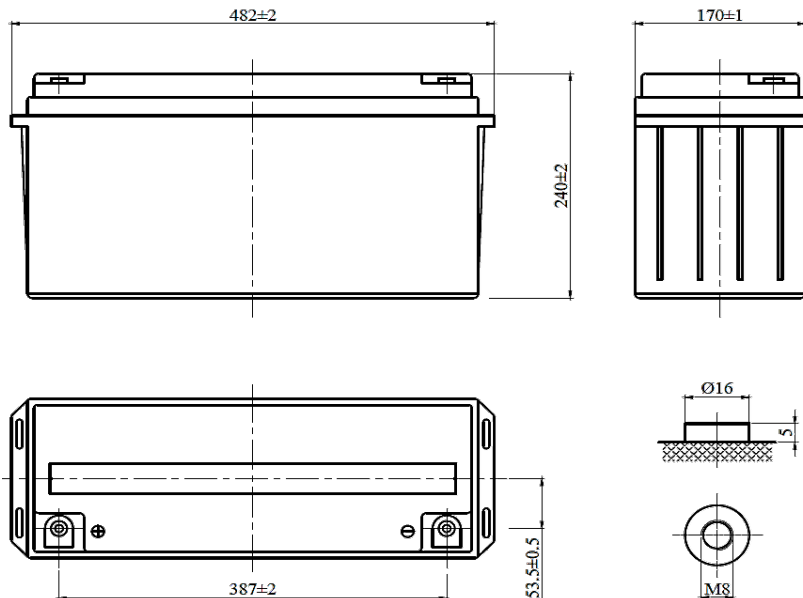
TECHNICAL FEATURES



ABS



- 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



SPECIFICATIONS

Length	Width	Height	Total Height	Weight (kg)
482 mm	170 mm	240 mm	240 mm	42.5 Kg ±5%

CHARACTERISTICS

Nominal Voltage	12 V	
Design Life	12 Years	
Capacity 25° (77°F)	10 Hour rate	150 Ah
Internal Resistance (25°C, 100% Charge)		<4.0 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 ± 2°C
Maximum Discharge current		1000A (5sec)
Maximum Charging current		45A
Short Circuit Current		2800A
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	10 min	15 min	20 min	30 min	60 Min	1.5 h	2 h	3 h	4 h	5 h	10 h
1.60	408	313	213	185	106	78	69	47	33	29.10	16.10
1.65	378	293	203	170	102	75	65	46	32	28.10	15.90
1.70	347	276	195	159	97	72	62	44	31	27.40	15.60
1.75	319	261	185	149	94	69	53	42	30	26.70	15.40
1.80	286	237	173	145	89	66	51	41	29	26.00	15.30

CONSTANT POWER DISCHARGE (Watts) AT 25 °C

End Cell Voltage / Cell	10 min	15 min	20 Min	30 min	60 min	1.5 h	2 h	3 h	4 h	5 h	10 h
1.60	680	525	454	350	188	137	119	86	61	56.10	31.60
1.65	645	510	440	335	183	134	115	84	60	54.40	31.30
1.70	600	500	430	325	178	131	111	81	58	53.10	30.70
1.75	570	480	415	310	173	127	95	79	56	51.90	30.40
1.80	525	445	395	290	166	123	89	78	55	50.80	30.20



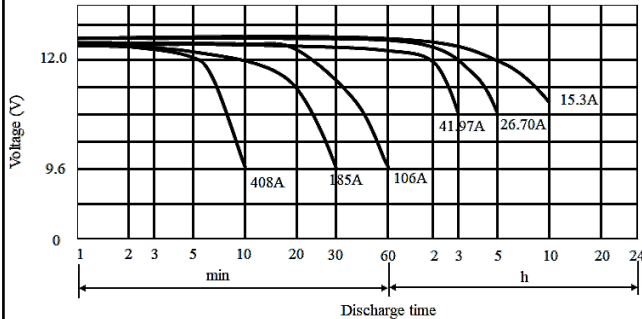
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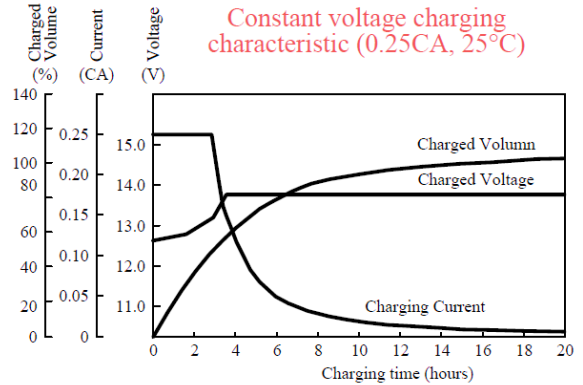
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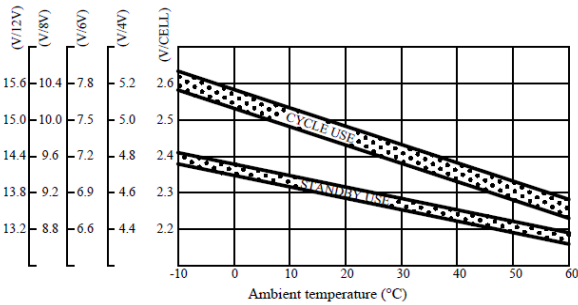
Discharge Characteristic (25°C)



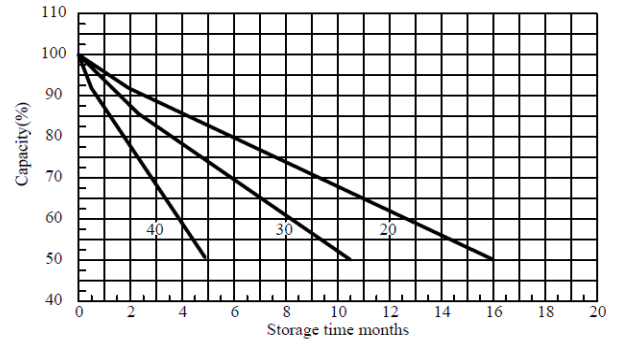
Constant voltage charging characteristic (0.25CA, 25°C)



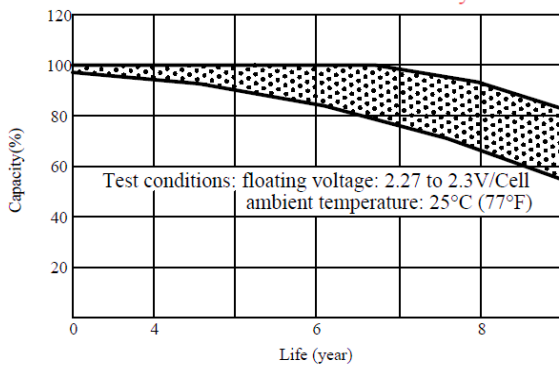
Relationship between charging voltage and temperature



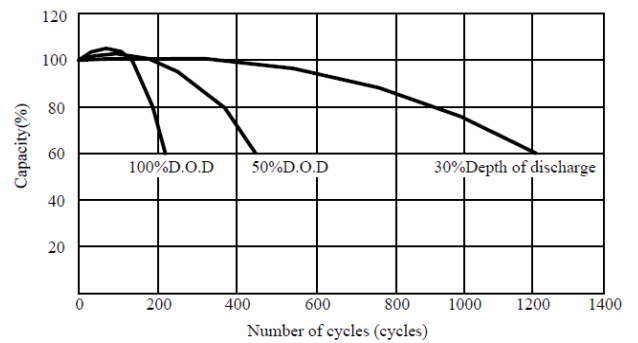
Self-discharge characteristic



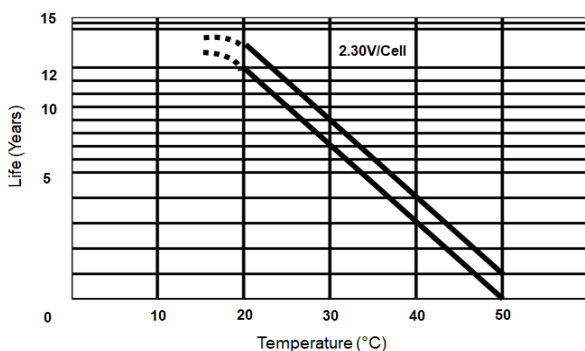
Life characteristics of Standby use



Cycle service life in relation to depth of discharge



Temperature effects on Float Life



Temperature effects on capacity

