



EnerRocket™
CONTINUOUSLY SAFEGUARDING

ES 65-12

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

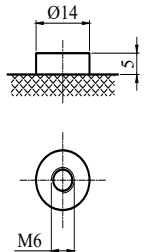
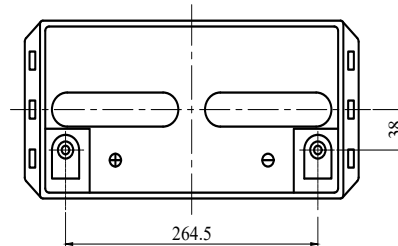
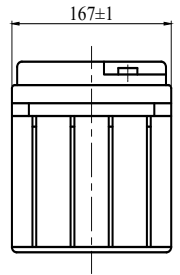
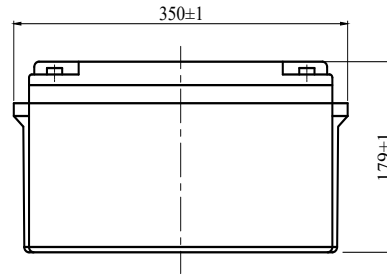
TECHNICAL FEATURES



- Non-Spillable Sealed Construction
- Seal Lead Acid Battery
- Absorptive Glass Mat System (AGM System)
- ABS (Acrylonitrile Butadiene Styrene) construction (FR optional)
- Gas Recombination
- Venting System for low internal pressure
- Low Self-Discharge
- Heavy-Duty, Highly Optimized Grids
- High Power Output
- Wide Operating Temperature
- Maintenance-Free Operation

CHARACTERISTICS

Nominal Voltage	12 V	
Design Life	10 Years	
Capacity 25°C (77°C)	20 Hour rate	68Ah
	10 Hour rate	65Ah
	5 Hour rate	55Ah
Internal Resistance (25°C, 100% Charge)		≤ 6.8 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		650A (5sec)
Maximum Charging current		26A
Short Circuit Current		1700A
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



SPECIFICATIONS

Length	Width	Height	Total Height	Weight (kg)
350 mm	167 mm	179mm	179 mm	20.4 ± 5%

CONSTANT CURRENT DISCHARGE (Amperes) AT 25°C

End Voltage Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60	212	151	126	75.4	45.10	18.4	11.8	6.7	3.48
1.65	201	144	121	73.3	44.00	18	11.6	6.58	3.46
1.70	189	137	115	71.3	43.00	17.6	11.3	6.56	3.44
1.75	177	129	109	69.2	41.90	17.2	11.0	6.53	3.42
1.80	164	120	102	66.9	41.00	16.9	10.7	6.50	3.40

CONSTANT POWER DISCHARGE (Watts) AT 25°C

End Voltage Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60	378	275	207	129	81.80	33.8	22.5	11.7	6.40
1.65	356	261	203	128	80.00	33.2	22.3	11.6	6.30
1.70	335	246	200	127	78.30	32.5	22.0	11.5	6.20
1.75	314	231	196	124	76.50	31.8	21.7	11.4	6.20
1.80	302	215	187	122	75.70	31.1	21.4	11.3	6.00



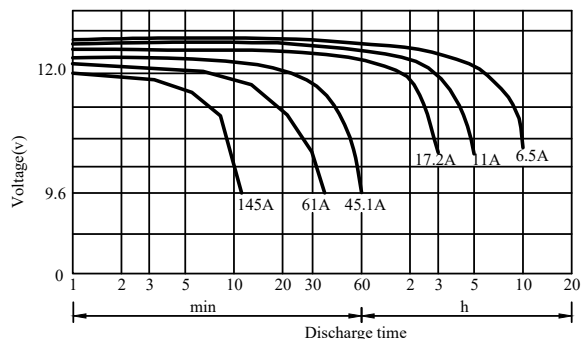
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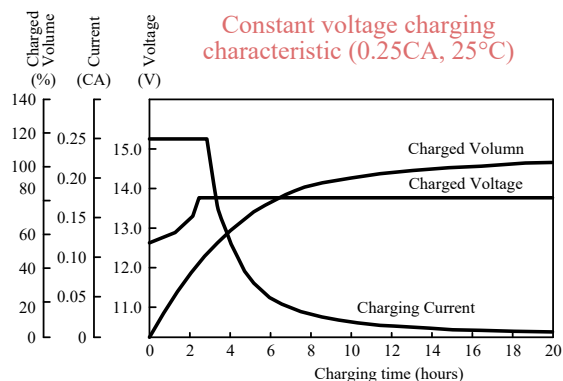
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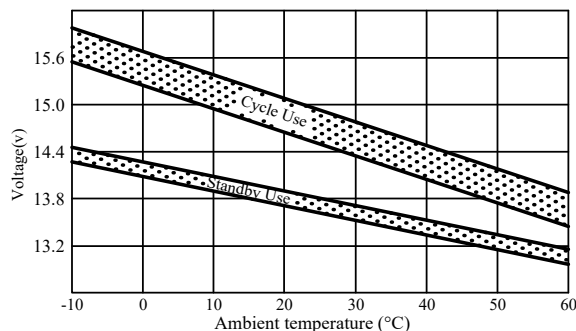
Discharge characteristic (25°C)



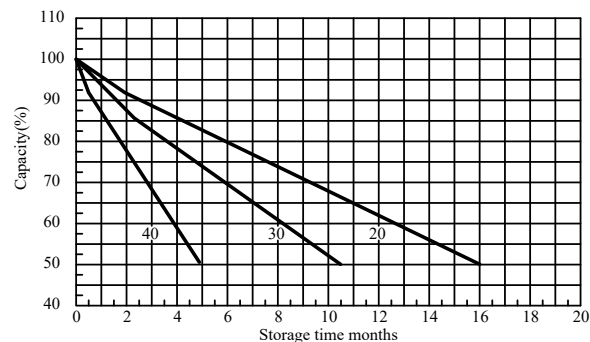
Constant voltage charging characteristic (0.25CA, 25°C)



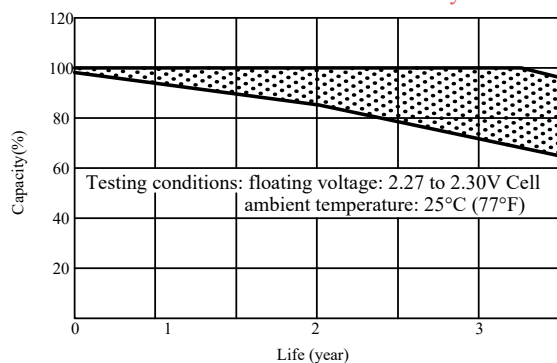
Relationship between charging voltage and temperature



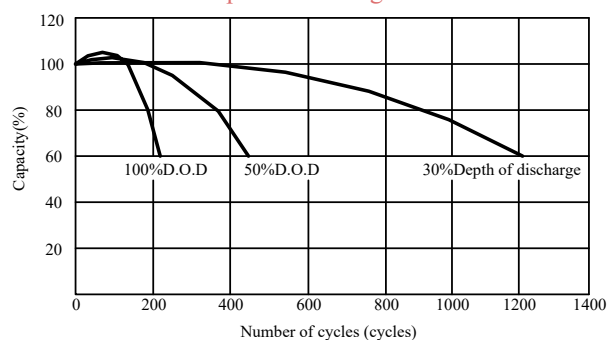
Self-discharge characteristic



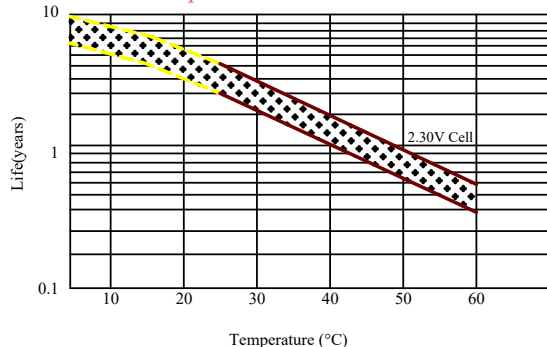
Life characteristics of Standby use



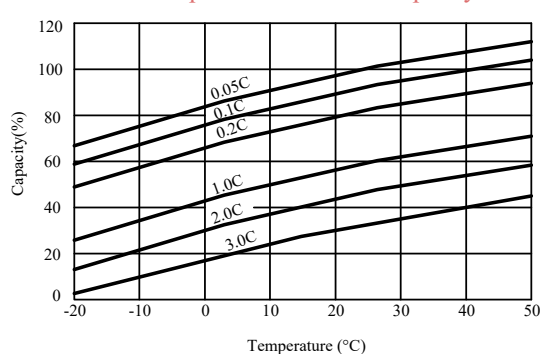
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



v205.2