



EnerRocket™
CONTINUOUSLY SAFEGUARDING

ES 42-12

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
BS6290-4

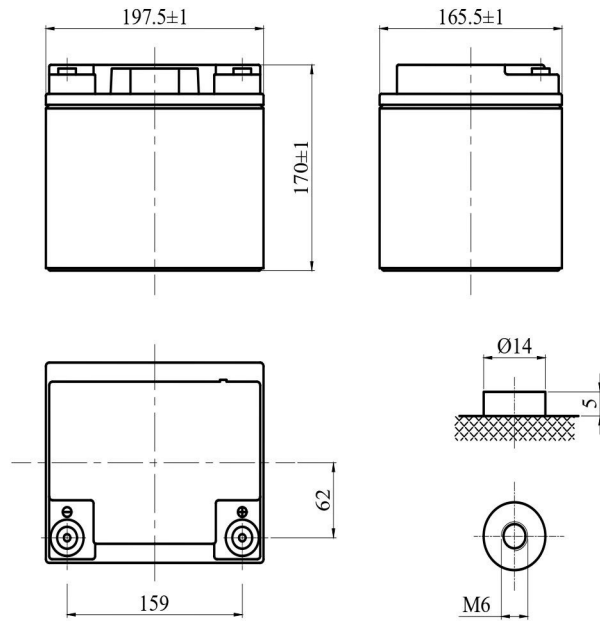
TECHNICAL FEATURES



- 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°F) | 20 Hour rate | 42Ah |
| | 10 Hour rate | 40Ah |
| | 5 Hour rate | 37.55Ah |
| Internal Resistance (25°C, 100% Charge) | ≤ 9.0 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 | 400A (5sec) | |
| Maximum Charging current | 16A | |
| Short Circuit Current | 950A | |
| Charge Methods Constant Voltage Charge 77°F (25°C) - Cycle use | 14.4 to 14.7V | |
| | Temp. Compensation -30mV/°C | |
| Charge methods Constant Voltage Charge 77°F (25°C) - Standby Use | 13.4 to 13.8V | |
| | Temp. Compensation -20mV/°C | |



SPECIFICATIONS

| Length | Width | Height | Total Height | Weight (kg) |
|--------|--------|--------|--------------|-------------|
| 197 mm | 165 mm | 170mm | 170 mm | 12.8 ± 5% |

CONSTANT CURRENT DISCHARGE (Amperes) AT 25°C

| End Voltage Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|------------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60 | 130 | 90.5 | 72.7 | 41.9 | 25.9 | 11.3 | 7.95 | 4.20 | 2.25 |
| 1.65 | 122 | 86.2 | 69.1 | 40.6 | 25.4 | 11.1 | 7.81 | 4.15 | 2.22 |
| 1.70 | 114 | 81.8 | 66.5 | 39.2 | 24.8 | 10.9 | 7.67 | 4.10 | 2.18 |
| 1.75 | 106 | 77.6 | 63.0 | 37.7 | 24.2 | 10.6 | 7.51 | 4.05 | 2.14 |
| 1.80 | 97 | 73.9 | 59.2 | 36.2 | 23.5 | 10.4 | 7.35 | 4.00 | 2.10 |

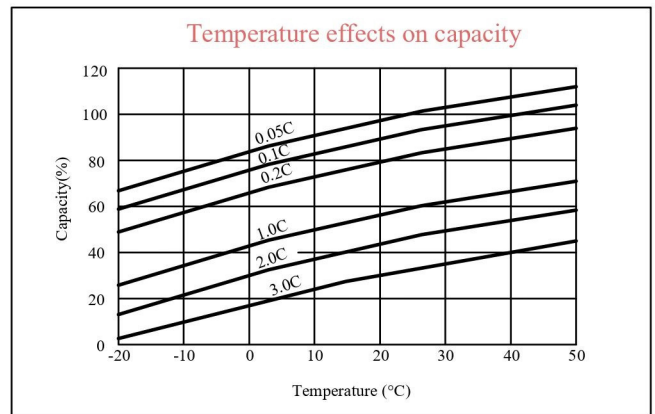
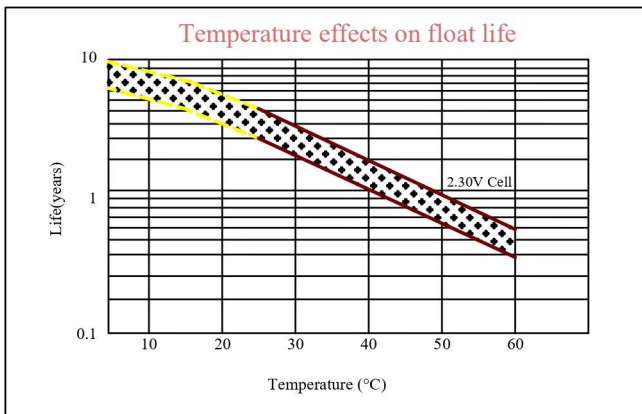
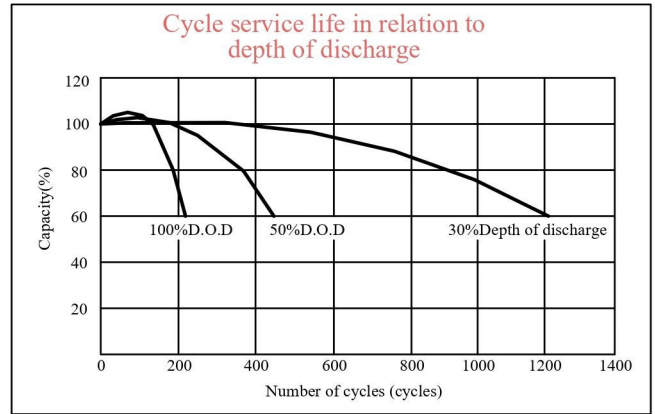
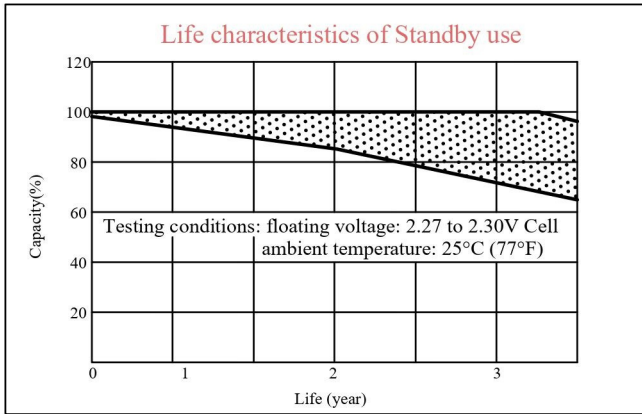
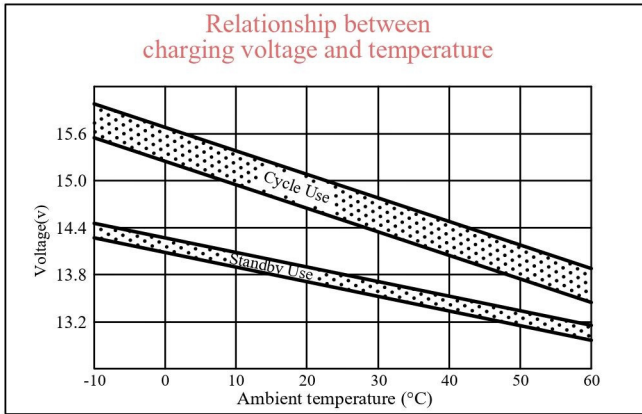
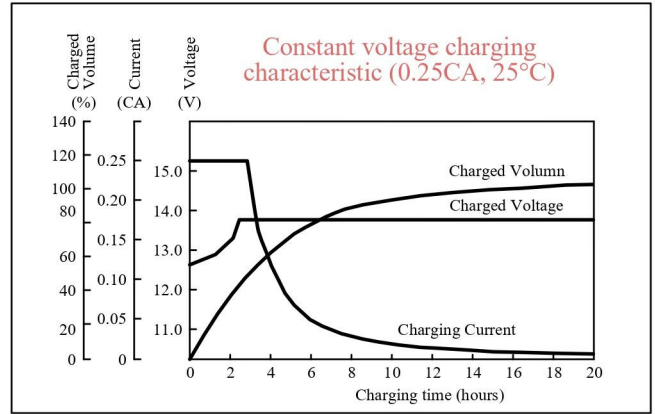
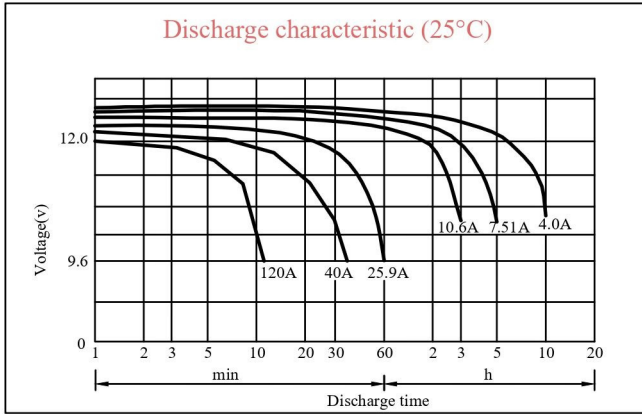
CONSTANT POWER DISCHARGE (Watts) AT 25°C

| End Voltage Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|------------------------|------|-------|-------|-------|------|------|------|------|-----|
| 1.60 | 236 | 163 | 127 | 83.2 | 50.9 | 21.5 | 14.0 | 8.76 | 3.9 |
| 1.65 | 220 | 157 | 124 | 81.8 | 50.2 | 21.2 | 13.8 | 8.59 | 3.9 |
| 1.70 | 204 | 150 | 121 | 79.3 | 49.3 | 20.8 | 13.6 | 8.42 | 3.8 |
| 1.75 | 186 | 143 | 117 | 76.8 | 48.5 | 20.5 | 13.4 | 8.21 | 3.8 |
| 1.80 | 177 | 135 | 113 | 74.3 | 47.7 | 20.1 | 13.3 | 8.04 | 3.7 |



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v205.2