



EnerRocket™
CONTINUOUSLY SAFEGUARDING

ES 7-12

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

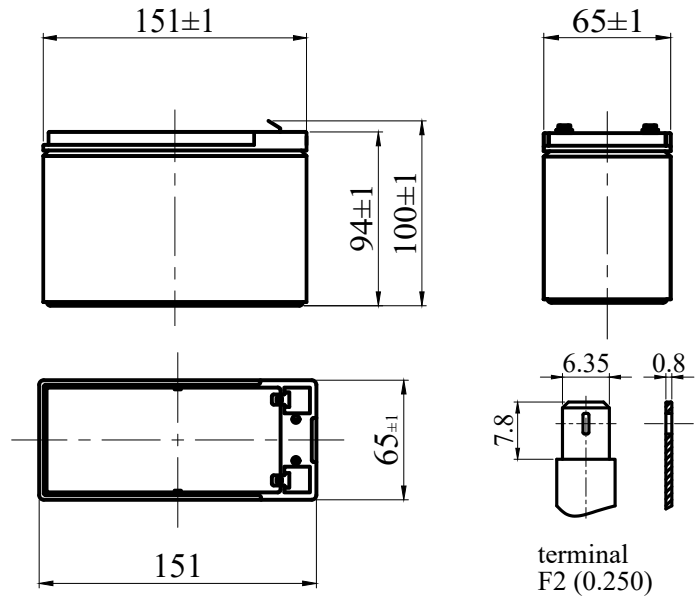
TECHNICAL FEATURES



- Non-Spillable Sealed Construction
- Seal Lead Acid Battery
- Absorbent 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 27°C (80.6°F) | 20 Hour rate | 7Ah |
| | 10 Hour rate | 6.7Ah |
| | 5 Hour rate | 5.6Ah |
| Internal Resistance (25°C, 100% Charge) | 25mΩ | |
| 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 | 105A (5sec) | |
| Maximum Charging current | 2.88A | |
| Short Circuit Current | 350A | |
| Charge Methods | 14.4 to 14.7 V | |
| 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) |
|--------|-------|--------|--------------|-------------|
| 151 mm | 65 mm | 94 mm | 100 mm | 2.2 ± 5% |

CONSTANT CURRENT DISCHARGE (Amperes) AT 25°C

| End Voltage Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|------------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60 | 30.0 | 18.8 | 15.3 | 8.50 | 4.80 | 1.88 | 1.25 | 0.66 | 0.38 |
| 1.65 | 28.4 | 17.9 | 14.6 | 8.15 | 4.63 | 1.82 | 1.20 | 0.65 | 0.38 |
| 1.70 | 26.8 | 17.0 | 13.9 | 7.86 | 4.44 | 1.76 | 1.16 | 0.64 | 0.37 |
| 1.75 | 25.2 | 16.0 | 13.2 | 7.56 | 4.25 | 1.69 | 1.12 | 0.63 | 0.36 |
| 1.80 | 23.5 | 15.1 | 12.5 | 7.18 | 4.04 | 1.64 | 1.10 | 0.60 | 0.35 |

CONSTANT POWER DISCHARGE (Watts) AT 25°C

| End Voltage Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|------------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60 | 53.3 | 35.8 | 28.1 | 15.50 | 9.30 | 3.68 | 2.38 | 1.34 | 0.70 |
| 1.65 | 50.7 | 34.0 | 27.0 | 14.90 | 8.90 | 3.59 | 2.34 | 1.32 | 0.69 |
| 1.70 | 48.1 | 32.2 | 25.9 | 14.30 | 8.53 | 3.49 | 2.30 | 1.30 | 0.68 |
| 1.75 | 45.6 | 30.4 | 24.8 | 13.70 | 8.28 | 3.38 | 2.25 | 1.28 | 0.66 |
| 1.80 | 43.1 | 28.6 | 23.8 | 13.20 | 7.90 | 3.27 | 2.19 | 1.26 | 0.64 |



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