



# INV Series-General Purpose INV12-7.2 (12V 7.2Ah)

# INVERMEXA

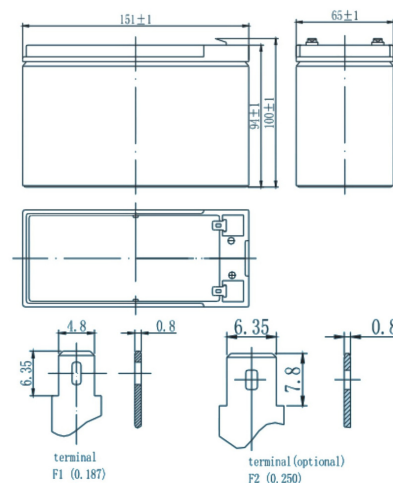
## Performance Characteristics

|  |              |
|--|--------------|
| Nominal Voltage                              | 12V          |
| Number of cell                               | 6            |
| Design Life                                  | 5 years      |
| Nominal Capacity 25°C                        |              |
| • 20 hour rate (0.36A, 10.5V)                | 7.2Ah        |
| • 10 hour rate (0.69A, 10.5V)                | 6.9Ah        |
| • 5 hour rate (1.16A, 10.5V)                 | 5.8Ah        |
| • 1 hour rate (4.80A, 9.6V)                  | 4.8Ah        |
| Internal Resistance                          |              |
| • Fully Charged Battery 25°C                 | <28mOhms     |
| Self-Discharge                               |              |
| • 3% of capacity declined per month at 20°C  |              |
| Operating Temperature Range                  |              |
| • Discharge                                  | -20~60°C     |
| • Charge                                     | -10~60°C     |
| • Storage                                    | -20~60°C     |
| Max. Discharge Current 25°C                  | 105A (5s)    |
| Short Circuit Current                        | 350A         |
| Charge Methods: Constant Voltage Charge 25°C |              |
| • Cycle use                                  | 2.30-2.35VPC |
| • Maximum Charging Current                   | 2.88A        |
| • Temperature compensation                   | -30mV/°C     |
| • Standby use                                | 2.23-2.27VPC |
| • Temperature compensation                   | -20mV/°C     |
| Dimensions and Weight                        |              |
| • Length (mm/inch)                           | 151 / 5.94   |
| • Width (mm/inch)                            | 65 / 2.56    |
| • Height (mm/inch)                           | 94 / 3.70    |
| • Total Height (mm/inch)                     | 100 / 3.94   |
| • Approx. Weight (Kg/lbs)*                   | 2.20 / 4.84  |

\*Weight deviation: ~5%



## Layout



## Discharge Constant Current (Amperes at 77°F 25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h   | 3h   | 5h   | 10h  | 20h  |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V                | 30.0 | 18.8  | 15.3  | 8.50  | 4.80 | 1.88 | 1.25 | 0.71 | 0.38 |
| 1.65V                | 28.4 | 17.9  | 14.6  | 8.15  | 4.63 | 1.82 | 1.20 | 0.70 | 0.38 |
| 1.70V                | 26.8 | 17.0  | 13.9  | 7.86  | 4.44 | 1.76 | 1.16 | 0.70 | 0.37 |
| 1.75V                | 25.2 | 16.0  | 13.2  | 7.56  | 4.25 | 1.69 | 1.12 | 0.69 | 0.36 |
| 1.80V                | 23.5 | 15.1  | 12.5  | 7.18  | 4.04 | 1.64 | 1.10 | 0.67 | 0.35 |

## Discharge Constant Power (Watts at 77°F 25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V                | 53.3 | 35.8  | 28.1  | 15.5  | 11.8  | 9.30 | 5.13 | 3.68 | 2.38 |
| 1.65V                | 50.7 | 34.0  | 27.0  | 14.9  | 11.3  | 8.90 | 5.02 | 3.59 | 2.34 |
| 1.70V                | 48.1 | 32.2  | 25.9  | 14.3  | 10.8  | 8.53 | 4.89 | 3.49 | 2.30 |
| 1.75V                | 45.6 | 30.4  | 24.8  | 13.7  | 10.4  | 8.28 | 4.73 | 3.38 | 2.25 |
| 1.80V                | 43.1 | 28.6  | 23.8  | 13.2  | 10.0  | 7.90 | 4.58 | 3.27 | 2.19 |



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# INV R M E X A

## General features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

## Standards

- Compliance with IEC 60896 standards, EU Battery Directive.
- UL, CE Certified.
- MAnufactured under ISO45001, ISO9001 and ISO14001 certified production facilities.

## Applications

- All purpose.
- Uninterruptable Power Supply (UPS).
- Electric Power System (EPS).
- Emergency backup power supply.
- Alarm and security system.
- Communication power supply.
- DC power supply.
- Auto control system.

