



# INV Series-General Purpose INV12-7S (12V 7.0Ah)

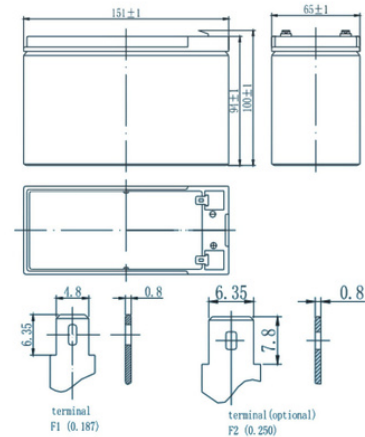
# INVERMEXA

## Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Operating Temperature 30°C	
<ul style="list-style-type: none"> <li>20 hour rate (0.35A, 10.5V)</li> <li>10 hour rate (0.66A, 10.5V)</li> <li>5 hour rate (1.22A, 10.5V)</li> <li>1 hour rate (3.90A, 9.6V)</li> </ul>	7.0Ah 6.6Ah 6.1Ah 4.27Ah
Internal Resistance	<25mOhms
<ul style="list-style-type: none"> <li>Fully Charged Battery 25°C</li> </ul>	
Self-Discharge	
<ul style="list-style-type: none"> <li>3% of capacity declined per month at 20°C</li> </ul>	
Operating Temperature Range	
<ul style="list-style-type: none"> <li>Discharge</li> <li>Charge</li> <li>Storage</li> </ul>	-20~60°C -10~60°C -20~60°C
Max. Discharge Current 25°C	75A (5s)
Short Circuit	300A
Current Charge Methods: Float Charge Voltage 25°C	13.5-13.8VDC
<ul style="list-style-type: none"> <li>Cycle use               <ul style="list-style-type: none"> <li>Maximum Charging Current</li> <li>Temperature compensation</li> </ul> </li> <li>Standby use               <ul style="list-style-type: none"> <li>Temperature compensation</li> </ul> </li> </ul>	2.40A -30mV/°C 2.25- 2.30VPC -20mV/°C
Dimensions and Weight	
<ul style="list-style-type: none"> <li>Length (mm/inch)</li> <li>Width (mm/inch)</li> <li>Height (mm/inch)</li> <li>Total Height (mm/inch)</li> <li>Approx. Weight (Kg/lbs)*</li> </ul>	151 / 5.94 65 / 2.56 94 / 3.70 97 / 3.90 2.27 / 5.0
Terminal	Faston F1



## Layout



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

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5 h	10 h	20 h
1.60V	26.5	18.7	13.5	7.79	4.27	1.97	1.32	0.69	0.37
1.65V	24.7	17.7	12.8	7.48	4.13	1.91	1.28	0.68	0.36
1.70V	22.2	16.3	12.1	7.15	3.99	1.86	1.25	0.67	0.36
1.75V	19.9	14.9	11.3	6.83	3.85	1.80	1.22	0.66	0.35
1.80V	17.5	13.5	10.4	6.53	3.70	1.75	1.19	0.65	0.34

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

End Point Volts/Cell	5m in	10min	15min	30min	45min	1 h	2 h	3 h	5 h
1.60V	43.1	29.8	21.0	13.1	9.50	7.30	4.83	3.44	2.21
1.65V	42.0	28.4	20.0	12.6	9.20	7.00	4.70	3.36	2.16
1.70V	39.0	27.3	19.2	12.0	8.60	6.60	4.59	3.28	2.11
1.75V	36.8	25.9	18.3	11.5	8.20	6.30	4.45	3.18	2.06
1.80V	35.0	24.6	17.6	11.0	7.80	6.00	4.29	3.05	1.93



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## General features

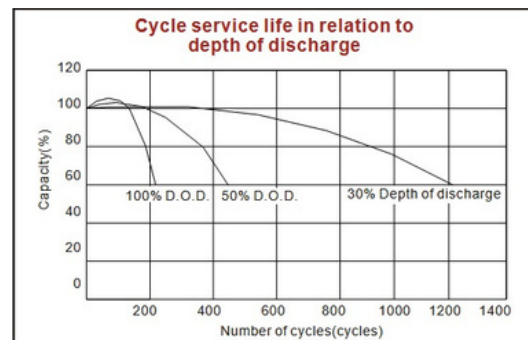
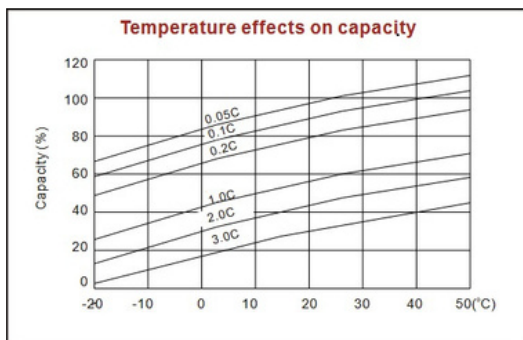
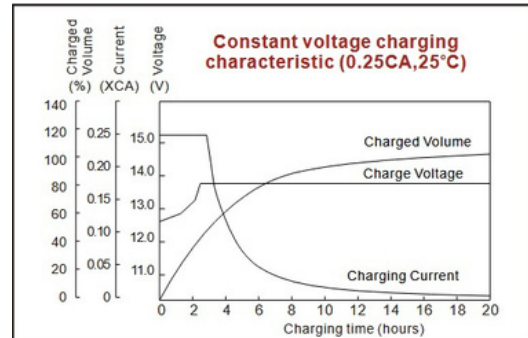
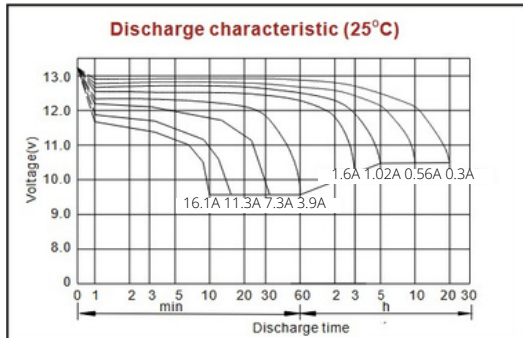
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed 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.
- UL1989, UL94HB.
- 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.



- 225 cycles @ 100% D.O.D.
- 450 cycles @ 50% D.O.D.
- 1200 cycles @ 30% D.O.D.