



INVHR Series-High Rate INVHR12-650W (12V 150Ah)

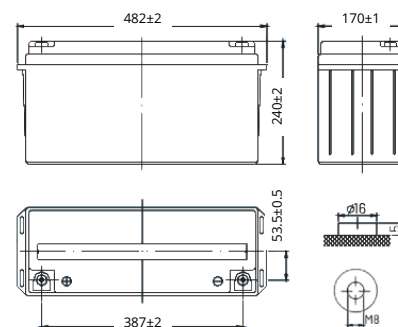
INVEXA

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 25°C	
• 10min wattage @1.6V	650W/cell
• 20 hour rate (7.86A, 10.5V)	157.2Ah
• 10 hour rate (15.0A, 10.8V)	150.0Ah
Internal Resistance	
• Fully Charged Battery 25°C	<4.0mOhms
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	1000A (5s)
Short Circuit Current	2700A
Charge Methods: Constant Voltage Charge 25°C	
• Cycle use	2.40-2.45VPC
• Maximum Charging Current	45.0A
• Temperature compensation	-30mV/°C
• Standby use	2.20-2.30VPC
• Temperature compensation	-20mV/°C
Dimensions and Weight	
• Length (mm/inch)	482 / 18.98
• Width (mm/inch)	170 / 6.69
• Height (mm/inch)	240 / 9.45
• Total Height (mm/inch)	240 / 9.45
• Approx. Weight (Kg/lbs)*	46.4 / 102
*Weight deviation: ~5%	



Layout



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

End Point Volts/Cell	10min	15min	20min	30min	45min	60min
1.60V	365	306	256	206	148	115
1.65V	346	290	243	196	140	110
1.70V	326	274	230	185	133	105
1.75V	306	258	216	175	126	99.3
1.80V	294	249	210	170	123	97.1

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

End Point Volts/Cell	10min	15min	20min	30min	45min	60min
1.60V	650	550	457	365	270	210
1.65V	626	530	442	353	262	204
1.70V	602	511	426	342	254	199
1.75V	577	492	411	330	246	193
1.80V	553	473	396	318	238	187



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General features

- 12 years design life (25°C)
- Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed.
- Using oxygen recombination technology: maintenance-free
- Unique vent valve design: control water losing, prevent air and spark going inside

Standards

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

Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

