INVL Series-Long Standby Life INVL12-100 (12V 100Ah)

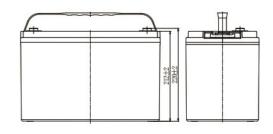
I N V E R M E X A

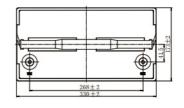
Specifications

Rated Voltage		12V				
Nominal Capacity	C ₁₀ ,1.80V/cell	100Ah				
Dimension	Length Width Container Height Total Height	330±2mm (13.0 inches) 173±2mm (6.81 inches) 212±2mm (8.35 inches) 220±2mm (8.66 inches)				
Approx Weight		30.5kg (67.2 lbs)				
Terminal		M8				
Container Material		ABS				
Rated Capacity(25°C)	105.0 Ah 100.0 Ah 84.5 Ah 77.1 Ah 58.1 Ah	C20(5.25A,1.80V/cell) C10(10.0A,1.80V/cell) C5(16.9A,1.75V/cell) C3(25.7A,1.75V/cell) C1(58.1A,1.60V/cell)				
Max. Discharge Current	00.1741	1000A (5s)				
Internal Resistance(25°C)	Approx 5.0					
Operating Temp. Range	Discharge Charge Storage	-15 ~ 50°C (5 ~ 122°F) -20 ~ 40°C (-4 ~ 104°F) -15 ~ 40°C (5 ~ 104°F)				
Nominal Operating Temp. Range		25±3°C (77±5°F)				
Standby Use	Initial Charging Current less 2.23V~2.27V at 25°C(77°F)Te					
Equalization Use	Initial Charging Current less 2.35V~2.40V at 25°C(77°F)Te					
Cycle Use	Initial Charging Current less 2.40V~2.50V at 25°C(77°F)Te	•				
	40°C (104°F)	103%				
Effect of temp. to Capacity	25°C (77°F)	100%				
	0°C (32°F) 86					
Self Discharge	LPL series batteries may be st at 25°C(77°F) and then a fresh For higher temperatures the ti	ening charge is required.				



Layout







Constant Current Discharge (Amperes) at 25 C (77F)															
F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	197.7	140.5	121.9	78.8	58.9	50.9	37.7	31.7	23.2	18.2	15.8	13.9	10.7	9.55	5.07
1.80V/cell	224.8	159.5	138.1	85.8	62.4	52.7	38.9	32.7	25.2	19.4	16.6	15.0	11.3	10.0	5.25
1.75V/cell	244.2	173.0	149.5	87.6	64.6	55.3	40.9	34.4	25.7	19.8	16.9	15.1	11.3	10.1	5.30
1.70V/cell	261.0	184.5	158.8	89.3	65.9	56.4	41.7	35.1	26.2	20.2	17.2	15.2	11.5	10.2	5.36
1.65V/cell	270.1	190.3	163.4	90.7	66.9	57.3	42.4	35.6	26.4	20.5	17.6	15.2	11.7	10.3	5.42
1.60V/cell	279.7	196.8	168.5	92.0	67.9	58.1	43.0	36.1	26.7	20.7	17.8	15.3	11.8	10.5	5.49

Constant Power Discharge (Watts/cell) at 25 C (77F)															
F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	369.1	264.4	230.7	150.7	113.2	98.5	73.0	61.6	45.4	35.7	31.1	27.5	21.3	19.0	10.1
1.80V/cell	412.9	295.8	258.1	162.7	119.2	101.4	75.1	63.3	49.0	38.0	32.6	29.5	22.3	19.9	10.4
1.75V/cell	440.7	315.7	275.4	164.8	122.7	106.0	78.6	66.3	49.9	38.6	33.1	29.6	22.4	20.0	10.5
1.70V/cell	463.3	331.9	289.6	166.7	124.3	107.5	79.8	67.4	50.6	39.1	33.5	29.7	22.7	20.2	10.6
1.65V/cell	470.9	337.2	294.3	167.9	125.4	108.5	80.6	68.1	50.9	39.6	34.1	29.8	23.0	20.4	10.7
1.60V/cell	477.4	342.0	298.4	168.6	126.1	109.3	81.2	68.6	51.1	39.9	34.4	29.9	23.2	20.6	10.9

INVL Series-Long Standby Life INVL12-100 (12V 100Ah)

INVERMEXA

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

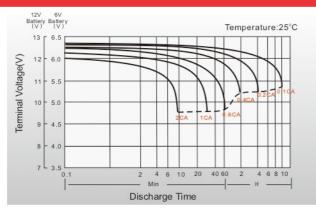
General features

- 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

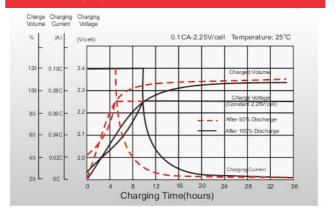
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- · UL, CE Certified
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

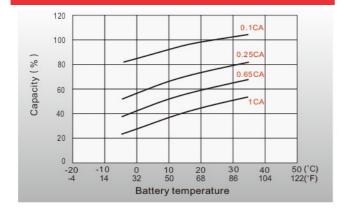
Discharge Characteristics



Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity

