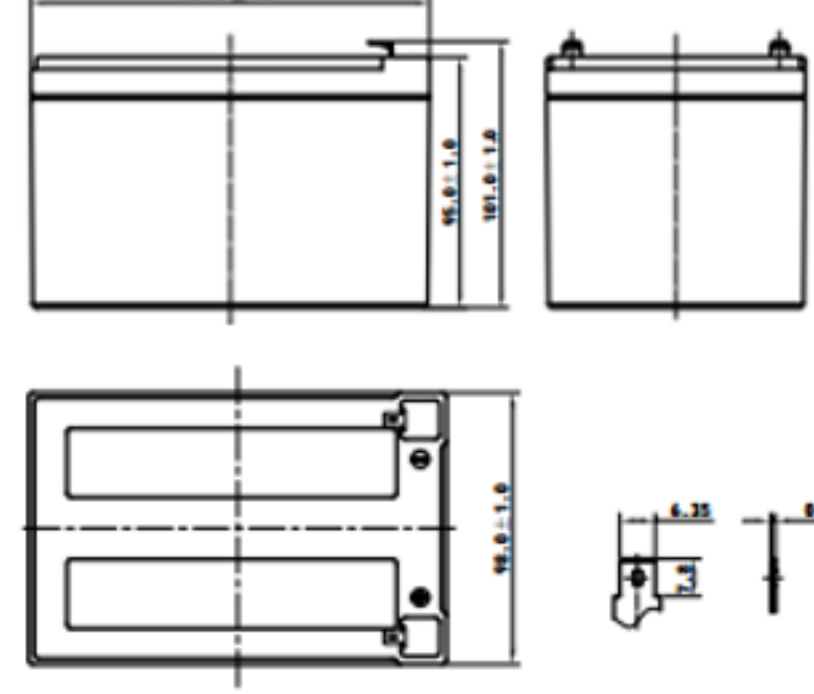


**OR-12120HR GENERAL CHARACTERISTICS**

- 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.



**DIMENSIONS AND WEIGHT**

	SI Units	imperial
<b>Length</b>	151 mm	5.94 inch
<b>Width</b>	98 mm	3.86 inch
<b>Height</b>	95 mm	3.74 inch
<b>Total Height</b>	101 mm	3.98 inch
<b>Approx. Weight</b>	3.67Kg	8.10 lbs

**HIGH RATE DISCHARGE**

The new VISION HP/HF series batteries are specially designed for applications where need high power output. By optimum design of battery grids and plate paste formula, the HP/HF series can deliver up to 40% more power than VISION standard CP/FM series.

**PERFORMANCE CHARACTERISTICS**

**BATTERY CONSTRUCTION**

Component Raw Material — Positive plate Lead Dioxide — Negative plate Lead — Container  
 ABS — Cover ABS — Safety valve Rubber — Terminal Copper — Separator Fiberglass —  
 Electrolyte Sulfuric acid

- Nominal Voltage — 12V
- Number of cell — 6
- Design Life — 5 years
- Nominal Capacity 77oF(25oC)
  - 20 hour rate (0.6A, 10.5V) — 12Ah
  - 10 hour rate (1.14A, 10.5V) — 11.4Ah
  - 5 hour rate (2.05A, 10.5V) — 10.25Ah
  - 1 hour rate (8.14A, 9.6V) — 8.14Ah
- Internal Resistance
  - Fully Charged battery 77oF(25oC) — 19mOhms
- Self-Discharge
  - 3% of capacity declined per month at 20oC(average)

- Operating Temperature Range
  - Discharge — -20~60oC
  - Charge — -10~60oC
  - Storage — -20~60oC
- Max. Discharge Current 77oF(25oC) — 180A(5s)
- Short Circuit Current — 600A
- Charge Methods: Constant Voltage Charge 77oF(25oC)
  - Cycle use — 2.40-2.45VPC
  - Maximum charging current — 4.8A
  - Temperature compensation -30mV/oC
  - Standby use — 2.23-2.30VPC
  - Temperature compensation — -20mV/oC

**UPC Code: 024606140304**



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**OR-12120 BATTERY SPECIFICATIONS**

**Discharge Constant Current (Amperes at 77oF25oC)**

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	46.4	31.7	24.8	13.8	8.14	3.18	2.12	1.18	0.61
1.65V	45.0	30.8	24.3	13.5	8.04	3.15	2.10	1.17	0.61
1.70V	43.5	29.9	23.7	13.3	7.94	3.12	2.07	1.16	0.61
1.75V	42.1	29.0	23.2	13.0	7.85	3.09	2.05	1.14	0.60
1.80V	40.6	28.2	22.6	12.7	7.75	3.06	2.02	1.12	0.59

**Discharge Constant Power (Watts at 77oF25oC)**

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	86.2	58.7	46.7	27.0	20.6	16.1	8.50	6.50	4.20
1.65V	84.1	57.7	46.0	26.6	20.4	16.0	8.42	6.44	4.17
1.70V	81.9	56.6	45.3	26.2	20.1	15.8	8.33	6.37	4.14
1.75V	79.8	55.6	44.6	25.8	19.9	15.7	8.25	6.31	4.11
1.80V	77.6	54.6	43.9	25.4	19.6	15.5	8.16	6.24	4.08

