

OR-12220HR GENERAL CHARACTERISTICS

- Positive and negative plates in lead-calcium tin alloy
- Superior energy density
- Operates at a low internal pressure.
- Gas Recombination
- Usable in any orientation
- A recognized component of UL

- Very high power output
- Application specific designs
- A couple Range from 13W to 890W per cell for 10' @ 1.60Vpc
- Six months shelf life at 20 C
- Design life 5 years

DIMENSIONS AND WEIGHT

	SI	Imperial
Length	181 mm	7.13 inch
Width	77 mm	3.03 inch
Height	167 mm	6.57 inch
Total Height	167 mm	6.57 inch
Approx. Weight	6.50 Kg	14.3 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

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 68 F(20 C)
10 min wattage @ 1.6V 116W/cell
- Nominal Capacity 77 F(25 C)
20 hour rate (1.00A, 10.5V) 20.0Ah
- Internal Resistance
Fully Charged battery 68 F(20 C) 9mOhms
- Self-Discharge
3% of capacity declined per month at 20 C(average)

- Operating Temperature Range
Discharge -20~60 C
Charge -10~60 C
Storage -20~60 C
- Max. Discharge Current 68 F(20 C)
280A(5s)
- Short Circuit Current 1700A
- Charge Methods: Constant Voltage Charge
68 F(20 C)
Cycle use
Maximum charging current 7A
Temperature compensation -30mV/ C
- Standby use
Temperature compensation -20mV/ C

UPC Code: 024606140267



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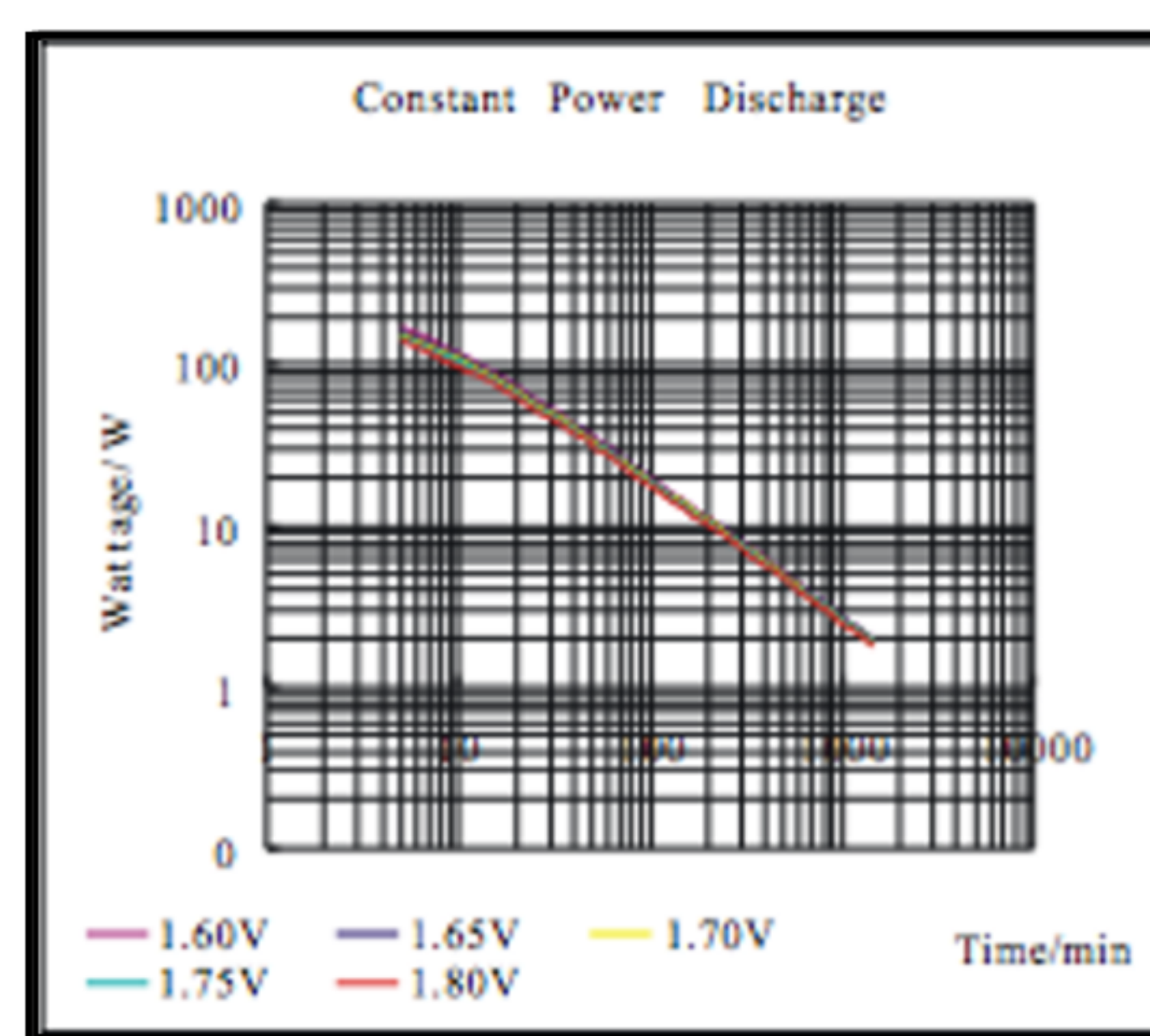
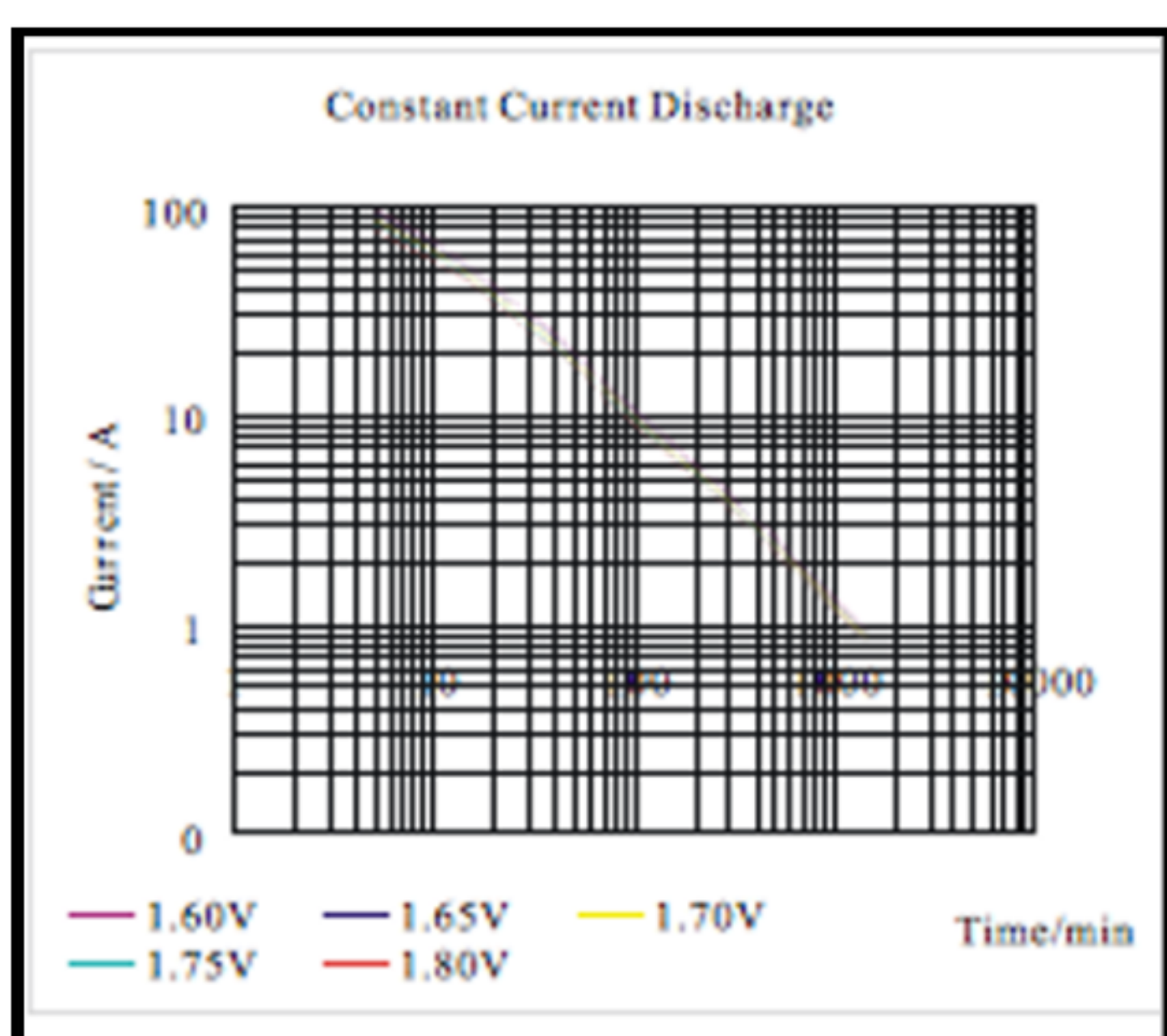
OR-12220HR BATTERY SPECIFICATIONS

Constant Current Discharge Data (Amperes at 20oC)

End Voltage Per Cell / V	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	1h
1.60	98.6	68.3	53.3	42.0	35.3	30.7	27.2	24.6	22.5	20.4	18.8	17.4
1.65	92.8	64.6	50.5	39.9	33.4	29.2	25.8	23.3	21.4	19.5	17.9	16.6
1.70	86.9	60.9	47.8	37.7	31.6	27.6	24.5	22.1	20.3	18.5	17.0	15.8
1.75	81.0	57.2	45.0	35.5	29.8	26.0	23.1	20.9	19.2	17.5	16.1	15.0
1.80	77.6	55.1	43.4	34.4	28.9	25.3	22.5	20.4	18.7	17.1	15.8	14.6

Constant Power Discharge Data (Watts per cell at 20oC)

End Voltage Per Cell / V	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	1h
1.60	167	116	90.8	72.0	60.7	53.2	46.9	42.2	38.6	35.5	32.9	30.8
1.65	160	112	87.6	69.6	58.7	51.5	40.9	40.9	37.4	34.4	32.0	30.0
1.70	153	107	84.4	67.1	56.7	49.8	44	39.6	36.2	33.4	31.1	29.1
1.75	146	103	81.3	64.7	54.7	48.0	42.5	38.3	35.1	32.3	30.1	28.3
1.80	139	98.6	78.1	62.2	52.7	46.3	41.0	37.0	33.9	31.3	29.2	27.4



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