

UP-RH500-2



Product design features

- Excellent high temperature performance / normal operating temperature +35°C /
- Operating temperature range -20°C to +65°C
- Good float life performance and extremely high cyclic life
- Suitable for hybrid systems with solar and wind power
- One-way valve regulated system with flame-arrestor
- Internal gas recombination efficiency 98% - 99%
- Shock resistant ABS flame retardant container and lid
- Three-layer terminal sealing for leak-free operation
- Fully recyclable product

Mechanical Characteristics

	SI Units	US Units
Length	386 mm	15.2 inches
Width	168 mm	6.6 inches
Height	232 mm	9.1 inches
Typical Weight	32.0 kg	70.5 lbs
Terminal Torque	8.0 Nm	70.8 in.lbs

All batteries are fully compliant
with IEC 60 896 - 21/22,
EN 60 896 - part 2, BS 6290 - part 4

Electrical Characteristics

Nominal voltage	2 Volts
10 hour capacity to 1.80 Vpc	466.0 Ah
Charge current limitation	0.25 C10
Float charge voltage and temperature compensation	2.21 – 2.22 V per cell at 35°C - 3 mV / °C per cell
Boost charge voltage and temperature compensation	2.3 V per cell at 35°C - 5 mV / °C per cell
Shelf life	Up to 1 year
Short circuit current	5940 Amps
Internal resistance	0.35 mΩ

Discharge performance at constant current discharge (A) at 35°C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	1408	786	510	299	176.0	129.5	103.0	86.4	74.1	58.4	48.4	26.6
1.65	1290	756	500	291	175.0	128.8	102.2	85.2	73.1	57.9	47.9	26.0
1.70	1192	720	484	286	172.7	127.1	101.4	84.9	72.7	57.4	47.6	25.7
1.75	1080	688	466	275	168.3	125.4	100.0	83.7	71.7	56.9	47.1	25.5
1.80	952	638	435	264	164.5	122.3	97.6	82.2	70.3	55.9	46.6	25.0
1.85	812	572	385	245	155.0	115.0	92.7	78.6	67.6	53.0	44.6	24.2

Discharge performance at constant power discharge (W per cell) at 35°C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	2030	1160	701	498	313.3	230.0	182.4	152.8	131.6	106.5	99.4	50.9
1.65	1930	1130	767	490	309.0	229.1	181.7	151.9	131.0	105.8	89.3	50.4
1.70	1816	1088	756	480	306.4	225.7	180.2	150.2	129.5	104.7	89.0	50.0
1.75	1702	1038	729	471	303.0	224.0	178.0	148.7	128.2	103.5	88.6	49.5
1.80	1518	946	687	458	295.2	218.0	174.5	145.8	125.8	101.9	86.4	49.1
1.85	1286	834	616	420	281.5	208.6	167.4	140.1	121.3	108.6	83.5	48.0

