

Product information

The new **PowerSafe V** range of valve regulated lead acid batteries has been designed specifically for use in applications which demand the highest levels of security and reliability. With proven compliance to the most rigorous international standards, **PowerSafe V** is recognised worldwide as the premium battery for Telecom/IT applications. PowerSafe's reputation for long service life, combined with excellent high rate performance, also makes it the number one choice for high integrity, high specification UPS systems.

PowerSafe V delivers superior performance whilst occupying less space than conventional standby power batteries. The use of V0 rated, flame retardant, ABS plastic for the thick wall containers and lids offers high mechanical strength with good safety features.

Hawker has earned an international reputation for quality and reliability based on more than 100 year's experience in the manufacture of batteries, and is at the forefront of new product design to meet customer's increasing technical requirements.

PowerSafe batteries are designed using proven gas recombination technology which removes the need for regular water addition by controlling the evolution of hydrogen and oxygen during charging. Oxygen evolved at the positive plates diffuses through microporous separators to the negative plates, and, by a series of chemical reactions within the cell, recombines to form water. Each cell incorporates its own safety valve, which allows controlled, negligible gas release when excess pressure builds up within the cell.

The use of gas recombination technology for lead acid batteries has totally changed the concept of standby power.

This technology provides the user with the freedom to use lead acid batteries in a wide range of applications.

The minimal level of gas evolution allows battery installation in cabinets or on stands, in offices or near main equipment, thus maximising space utilisation and reducing storage and maintenance costs.



Range Summary

Features and Benefits

- positive and negative plates in lead-calcium tin alloy
- lid and case in strong flame retardant ABS
- terminals with brass inserts for maximum conductivity and with high compression grommet for long life
- pressure relief valve complete with integral flame arrestor
- available in cells and monoblocs from 22-1769Ah at 10 hour rate to 1.80Vpc at 20°C
- six months shelf life at 20°C

Easy installation

- vertical or horizontal position
- in cabinets or on stands close to the point of use. No separate battery room necessary
- ideal for installation as an integral part of a standby system due to its long life

Reduced maintenance

- no water addition

Standards

- compliant with international standards BS 6290/4 and IEC 896/2
- classified as long life according to the Eurobat Guide 1999
- able to be shipped as non-hazardous cargo in accordance with the requirements of IMDG (International Maritime code for Dangerous Goods) and OICA (Organisation of International Civil Aviation)
- Hawker production facilities worldwide are certified to ISO 9001

Range Summary

Type	Nominal Voltage (V)	Nominal Capacity (Ah) @ 20°C		Dimensions (mm)			Weight (kg)	Terminals	
		C ₁₀ to 1.80Vpc	C ₃ to 1.80Vpc	Length	Width	Overall Height		Type	Number
12V20	12	22	18	166	125	176	9.8	female	2
12V35	12	35	30	166	156	203	14.3	female	2
12V45	12	46	39	218	164	220	18.9	female	2
12V55	12	56	48	271	164	220	22.9	female	2
12V70	12	68	60	314	164	220	26.7	female	2
12V80	12	79	69	360	164	228	31.5	female	2
4V105	4	103	80	202	191	235	16.5	male	2
6V105	6	103	80	202	191	235	22.0	male	2
6V130	6	132	108	243	206	234	27.9	female	2
4V155	4	154	120	202	202	228	23.0	male	4
6V155	6	154	120	292	202	228	33.0	male	6
6V165/2	6	165	134	296	204	234	34.1	female	2
6V165/6	6	165	134	296	204	240	35.0	female	6
2V200	2	200	148	110	208	260	13.9	female	2
4V230	4	231	180	298	202	228	32.5	male	4
2V275	2	275	204	142	208	260	18.5	female	2
2V310	2	308	240	202	202	228	23.0	male	4
2V320	2	320	269	195	208	240	22.0	female	4
2V350	2	350	264	195	208	260	24.0	female	2
2V400/2	2	400	297	195	208	260	26.2	female	2
2V400/4	2	400	297	195	208	260	27.0	female	4
2V460/4	2	462	360	298	202	228	32.5	male	4
2V460/6	2	462	360	292	202	228	33.0	male	6
2V500/2	2	500	372	238	208	260	32.5	female	2
2V500/6	2	500	403	296	204	240	34.7	female	6
4V525*	4	524	410	527	266	215	75.0	male	4
6V525*	6	524	410	527	431	215	117.0	male	6
6V590*	6	590	461	527	431	215	126.0	male	6
2V785*	2	786	615	527	266	215	58.0	male	4
2V915*	2	917	718	527	266	215	66.5	male	4
2V1050*	2	1048	820	527	266	215	75.0	male	4
2V1575*	2	1573	1230	527	431	215	117.0	male	6
2V1770*	2	1769	1384	527	431	215	126.0	male	6

*Horizontal installation only. Dimensions as installed.