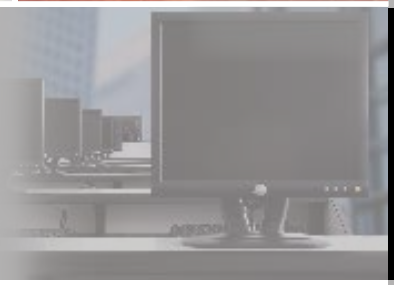




SHIELD BATTERIES
Powering the Future Since 1910

STERLING

High Integrity Valve Regulated Lead Acid (VRLA) Rechargeable batteries.



Sterling's AGM high integrity Valve Regulated Lead Acid (VRLA) batteries, operate as a starved electrolyte system in which the electrolyte is limited to the amount that either is absorbed in the batteries plates or wets the fibres in the separator. The resulting system allows gases produced during overcharge to diffuse from one plate to the other and to be recombined back into the electrolyte. This recombination creates a closed system thus reducing the release of gases into the atmosphere under normal discharge conditions.

Since the electrolyte is recycled, there is no need to add water to the batteries. This reduced maintenance leads to longer-life battery in a clean and compact container that can be installed when flooded batteries are impractical.

APPLICATIONS

- Fire & Security
- Communication equipment
- Electronic cash registers
- Electronic test equipment
- Electric powered bicycles
- Wheelchairs
- Marine equipment
- Medical equipment
- Power tools
- Toys
- Solar powered equipment
- Vending machines
- Standby power
- Portable power
- Electric vehicles
- UPS

and many more...

FEATURES

- Superb recovery from deep discharge.
- Gas Recombination.
- Multipurpose: Float or Cyclic use.
- Lead calcium grids for extended life.

Sealed Construction

Sterling's unique construction and sealing technique ensures no electrolyte leakage from case or terminals.

Electrolyte Suspension System

All HP & HPX series batteries utilise Sterling's unique electrolyte suspension system incorporating a microfiber glass mat to retain the maximum amount of electrolyte in the cells. The electrolyte is retained in the separator material and there is no free electrolyte to escape from the cells so can be mounted horizontally or inverted.

Control of Gas Generation

The design of the HP & HPX series batteries incorporates the very latest oxygen recombination technology to effectively control the generation of gas during normal use.

Terminals

Sterling's HP & HPX series batteries are manufactured using a range of terminals which vary in size and type. Please see diagram opposite.

Valve Regulated Design

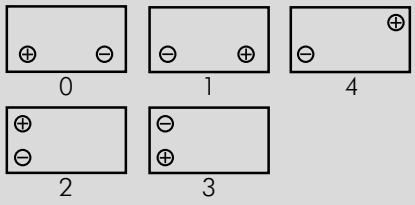
The batteries are equipped with a simple, safe low pressure venting system which releases excess gas and automatically reseals should there be a build up of gas within the battery due to severe overcharge. Note. On no account should the battery be charged in a sealed container.

Part No.	Volts	Ah C20	Dimensions (mm)			Approx Weight (kgs)	Layout	Terminals Type
			Length	Width	T. Height			
HP Series								
HP1.0-6	6	1.0	51.00	42.00	51.00	0.25	4	0
HP1.2-6	6	1.2	97.00	24.00	51.50	0.29	4	0
HP3.2-6	6	3.2	134.00	34.00	60.00	0.67	4	0
HP4.5-6	6	4.5	70.00	47.00	100.00	0.81	4	0
HP7.2-6	6	7.2	151.00	34.00	94.00	1.20	4	1
HP12-6	6	12.0	151.00	51.00	94.00	1.80	4	0
HP1.2-12	12	1.2	97.00	43.00	56.00	0.57	3	0
HP2.3-12	12	2.3	178.00	35.00	67.00	0.98	0	0
HP2.9-12	12	2.9	79.00	56.00	105.00	1.10	1	0
HP3.2-12	12	3.2	134.00	67.00	60.50	1.35	3	0
HP5.0-12	12	5.0	90.00	70.00	107.00	1.48	0	0
HP7.0-12	12	7.0	151.00	65.00	99.00	2.06	2	0
HP7.5-12	12	7.5	151.00	65.00	99.00	2.35	2	0
HP12-12	12	12.0	151.00	98.00	101.00	3.50	2	1
HP18-12	12	18.0	181.50	77.00	167.50	5.40	1	2
HP20-12	12	20.0	181.50	77.00	167.50	5.78	1	2
HP26-12	12	26.0	166.00	175.00	125.00	7.80	1	2
HP35-12	12	35.0	195.00	130.00	178.00	11.20	0	3
HP45-12	12	45.0	197.00	165.00	170.00	14.20	1	3
HP85-12	12	85.0	259.00	168.00	214.00	24.0	0	3
HP95-12	12	95.0	306.00	168.00	214.00	26.8	0	3
HP110-12	12	110.0	330.00	173.00	220.00	30.60	0	4
HP120-12	12	120.0	330.00	173.00	212.00	31.2	0	4
HP140-12	12	140.0	345.00	172.00	280.00	41.20	0	4
HP200-12	12	200.0	522.00	240.00	224.00	61.0	3	4
HP260-12	12	260.0	522.00	268.00	226.00	73.0	3	4
HPX Series - High Rate								
HPX5.4-12	12	5.4	90.00	70.00	107.00	1.77	2	1
HPX9.0-12	12	9.0	151.00	65.00	99.00	2.66	2	1

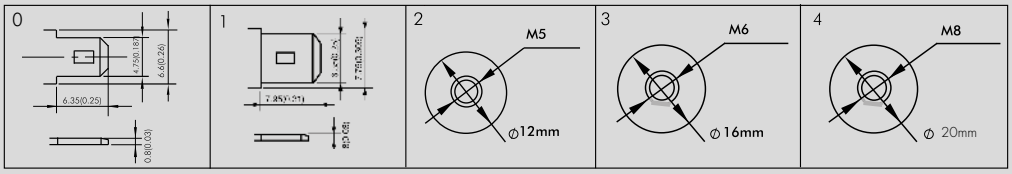
Technical data sheets available for each battery type on request.

Capacities may vary +/– 5%

Layouts



Terminals (mm/inch)



BATTERY CARE TIP

Correct battery charging is as important as selecting the correct battery. Protecting and properly maintaining your batteries begins with selecting the right battery charger. There are many factors to consider when selecting a battery charger, for advice on selecting the correct charger please contact one of our battery centres.

We also offer a full range of chargers - please contact your nearest Shield battery centre for advice and further details.

Charging: (25°C/77°F)

Standby use: Float charging voltage 13.50V to 13.80V.

Charging voltage: 14.4 - 15.0V.

Top charge: Product in storage (ambient temperature)requires a top charge every 6 months.

Caution

- Do not short circuit.
- Do not charge in a sealed container.
- Service life and operational characteristics will be affected by temperature.
- AC ripple reduces service life.

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ISO 9001:2015 ISO 14001:2004 BS OHSAS 18001:2007

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