

# **Specifications**

Nominal	Voltage	12v
Nominal	Capacity (20 Hr)	5.4AH

Watts	(15min Rate	20.7 Watts @ 1	1.67V/Cell
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*	
Length	90mm
Width	70mm
Height	101mm
Total Height	107mm
Weight	1. <i>77</i> Kg
Max Discharge Current	81A (5 Sec)
Container Material	ABS resin
Internal Resistance	25mΩ
Initial Charging Current	Less than 1.62A
Rated Capacity (+/- 5%)	4.47 AH (5hr, 1.75V/cell, 25°C/77°F) 5.4 AH (20h,1.75V/cell 25°C/77°F) 5 AH (100hr, 1.75V/cell, 25°C/77°F)

Operating	temperature	range
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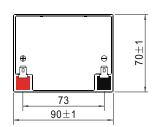
Charge:	0~40°C (32~104°F)
Discharge:	-15~50°C (5~122°F)
Storage:	-15~40°C (5~104°F)

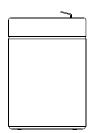
# Charge retention (shelf life) at 20°C (68°F)

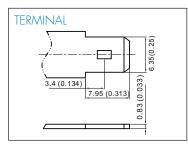
1 month	97%
3 months	91%
6 months	85%

# **Dimensions**











# **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 Sterling's HPX 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.

#### **Control of Gas Generation**

The design of Sterling's HPX batteries incorporates the very latest oxygen recombination technology to effectively control the generation of gas during normal use.

# **Terminals**

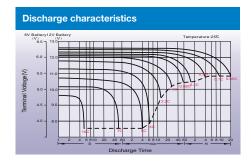
Sterling's HPX batteries are manufactured using a range of terminals which vary in size and type. Please see diagram opposite.

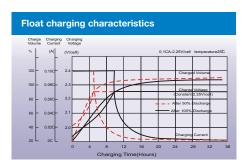
# **Valve Regulated Design**

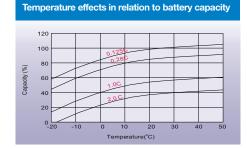
The batteries are equipped with a simple, safe low pressure venting system which releases excess gas and automatically reseals should there be a build up of gas within the battery due to severe overcharge. Note. On no account should the battery be charged in a sealed container.

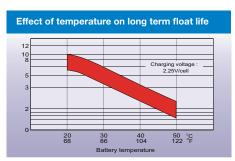


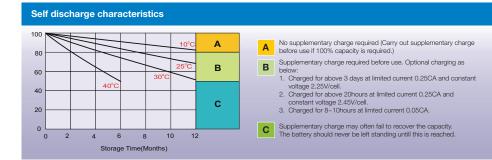
# Charging and Discharging Information











#### Charging (25°C/77°F)

Standby use: Float charging voltage 13.5V to 13.8V. (Temperature compensation recommended)

Cyclic use: maximum charging current (see front page). Charging voltage 14.4V - 15V.

Top charge: Product in storage (ambient temperature) required a top charge every 6 months at 25°C (77°F). For higher temperatures, time intervals will be shorter.

## **Discharge**

Stop operation when voltage has reached the minimum permissable voltage; recharge immediately.

#### Storaae

Always store battery in fully charged condition.

Store batteries in a dry and cool location.

### **Temperature**

For standby use, batteries should be kept in an ambient temperature of 25°C.

#### **Caution**

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







## **Applications**

- Uninterruptable Power Supply (High Rate) High Power Backup Supply Emergency Power Supply
- Power Tools
  Emergency Lighting
  Electric Starting

