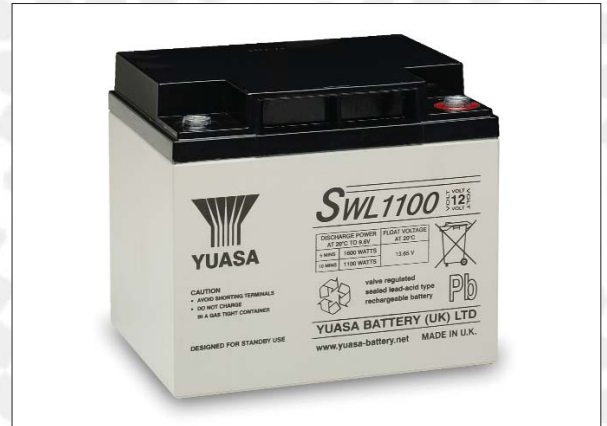


## SWL SERIES - **SWL1100**

### SWL Valve Regulated Lead-Acid Batteries (VRLA)

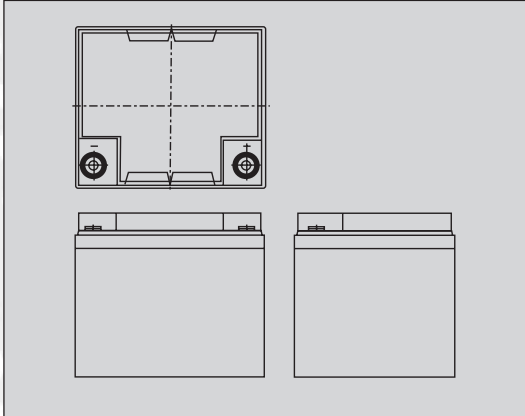
The SWL range is an enhanced NPL design resulting in an improved energy to density ratio, giving up to 40% extra discharge capacity. All other attributes and operational characteristics are the same, thereby maintaining the benefit of a common mechanical and electrical design for users of both products.



### FEATURES

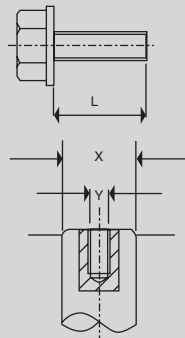
- Yuasa VRLA batteries can be used in any orientation excluding continuous use inverted.
- Standard case material is flame retardant to (UL94) HBØ.
- FR option case material is flame retardant to UL94:VØ (oxygen index 30).
- SWL batteries are manufactured in factories that comply with ISO9001:2000.
- FR option SWL's comply with BS6290 Part 4 (1997).
- SWL batteries comply with IEC 60896-21+22.

### Layout



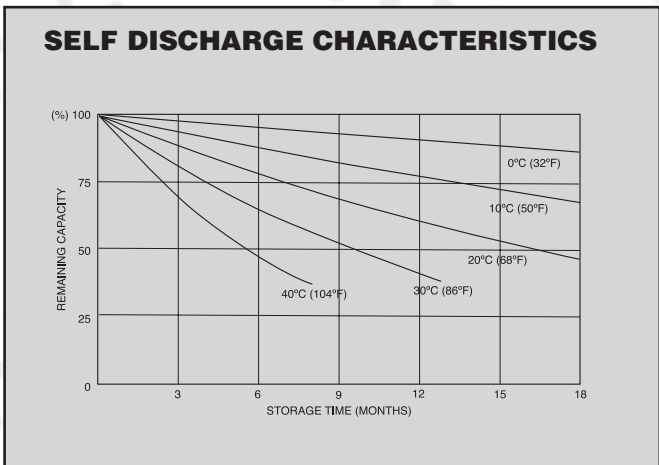
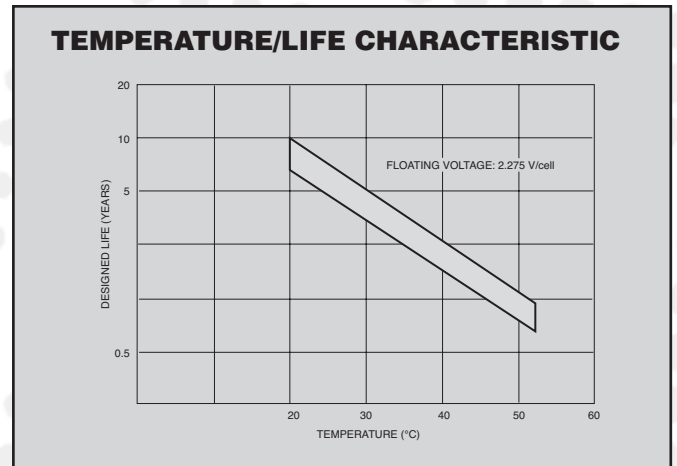
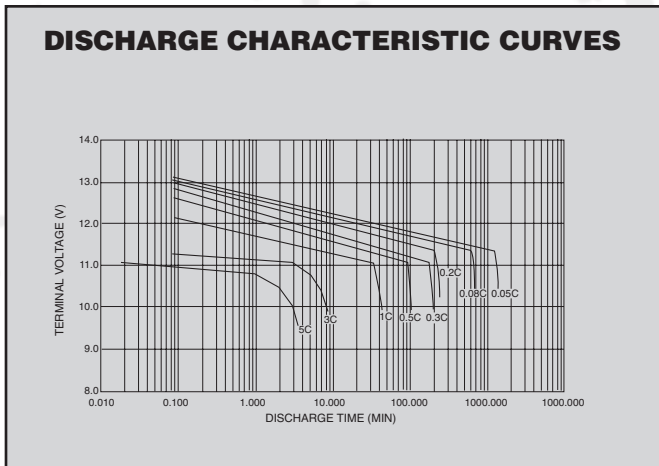
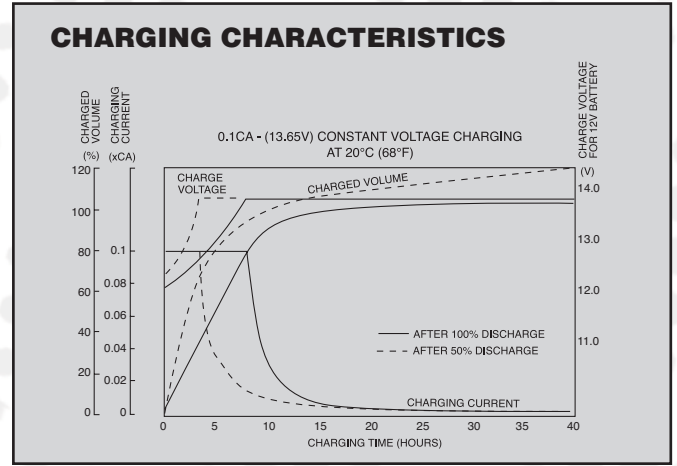
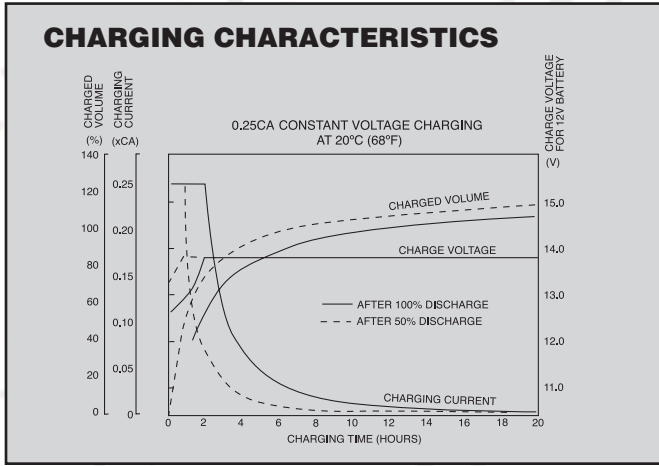
### Terminals (mm)

Terminal	X	Y	L
B	17mm	M5	10



### General Specifications

Specifications	SWL1100
1) Nominal Voltage	12
2) Nominal Wattage/Cell	
10 min to 1.6V/Cell	200
5 min to 1.6V/Cell	285
3 min to 1.6V/Cell	346
3) Weight (Approx)/Kg	14.5
4) Energy Density (Wh/L)	96
5) Specific Energy (Wh.kg) 10HR	37
6) Internal Resistance (Approx)/mohm	6
7) Maximum (1 min) discharge Current/A	200
8) Maximum Short Duration (1 sec) Discharge Current in Amperes	500
9) Operating Temperatures/°C	
Charge	-15 to 50
Discharge	-20 to 60
10) Percentage Charge Retention at 20°C	
1 month	97
3 months	91
6 months	85
11) Standard Terminal Type	Lead post with brass insert B
12) Torque Nm	2.45
13) Case Material	ABS
<b>Dimensions / mm</b>	
Length +/-1	197
Width +/-1	165
Height +/-2	170



## Charging Methods (At 20°C)

Standby use: Float charging voltage 2.275vpc

## CAUTION

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

## WARNING!

SWL (Standard) and (FR) battery types SWL1850; SWL1850-6; SWL2500, must never be installed permanently suspended by their handles; they are not designed for this purpose.



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Registered number 1548820

Cat. No. SWL1100 February 07

E&O.E.

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