

SWL SERIES - **SWL1800***

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

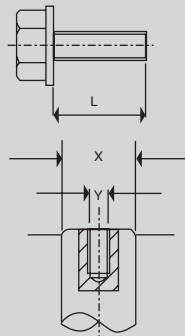
- Yuasa VRLA batteries can be used in any orientation excluding continuous use inverted.
- Standard case material is flame retardant to (UL94) HBØ.
- FR option case material is flame retardant to UL94:VØ (oxygen index 30).
- SWL batteries are manufactured in factories that comply with ISO9001:2000.
- 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
C	20mm	M6	16

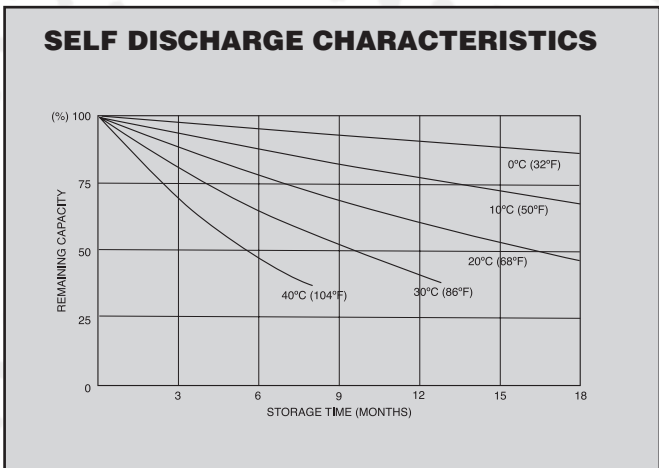
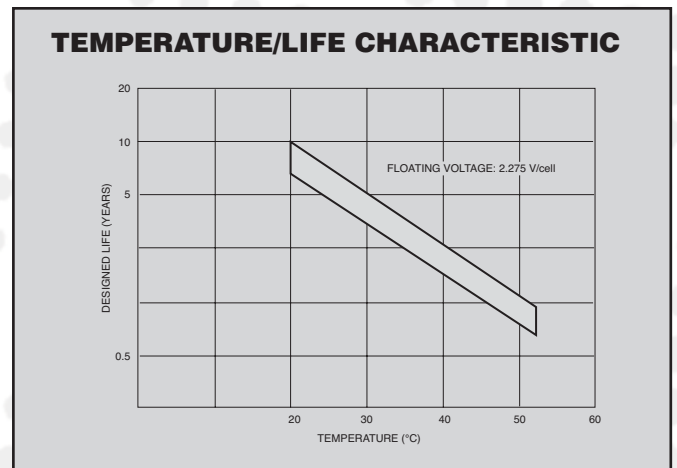
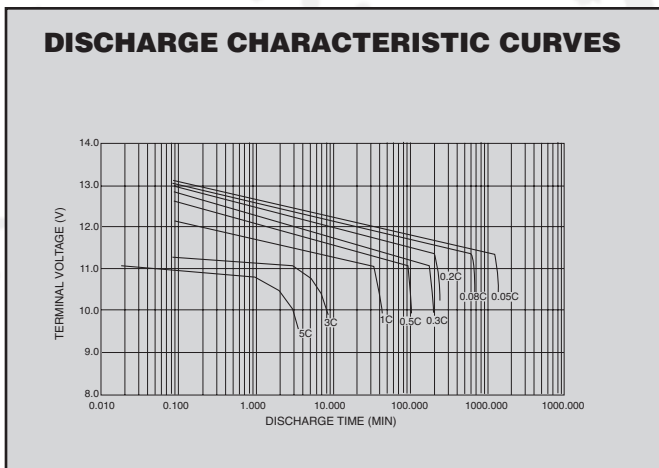
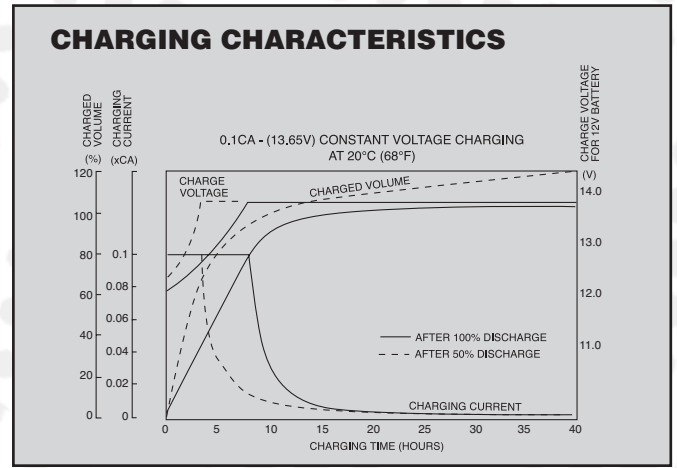
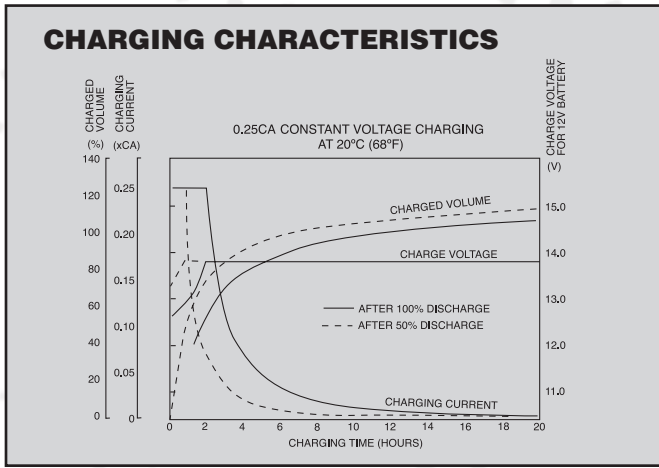


*Models available in Flame Retardent case only.

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General Specifications

Specifications	SWL1800
1) Nominal Voltage	12
2) Nominal Wattage/Cell 10 min to 1.6V/Cell 5 min to 1.6V/Cell 3 min to 1.6V/Cell	300 443 511
3) Weight (Approx)/Kg	22
4) Energy Density (Wh/L)	81.5
5) Specific Energy (Wh.kg) 10HR	28.7
6) Internal Resistance (Approx)/mohm	6
7) Maximum (1 min) discharge Current/A	165
8) Maximum Short Duration (1 sec) Discharge Current in Amperes	450
9) Operating Temperatures/°C Charge Discharge	-15 to 50 -20 to 60
10) Percentage Charge Retention at 20°C 1 month 3 months 6 months	97 91 85
11) Standard Terminal Type	Lead post with brass insert C
12) Torque Nm	4.76
13) Case Material	ABS
Dimensions / mm	
Length +/-1 Width +/-1 Height +/-2	216 168 223



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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