

# YUASA

## SWL-Series - Valve Regulated Lead Acid Battery SWL1800 (FR)

### INFORMATION

#### INSTALLATIONS

Can be installed and operated in any orientation except permanently inverted.

#### HANDLES

Batteries must not be suspended by their handles (where fitted).

#### VENT VALVES

Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.

#### GAS RELEASE

VRLA Batteries release hydrogen gas which can form explosive mixtures in air. Do not place inside a sealed container.

#### RECYCLING

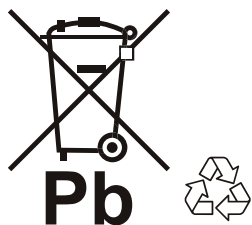
YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and regulations.

#### 3RD PARTY CERTIFICATIONS

- ISO 9001 - Quality Management Systems
- ISO 14001 - Environmental Management Systems
- EN 18001 - OHSAS Management Systems
- TL4423-6 by DeTelmobilien
- UNDERWRITERS LABORATORIES Inc.

#### STANDARDS

- IEC61056
- IEC60896-21/22



### YUASA SWL1800 (FR)



### LAYOUT



### CONTACT



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SPECIFICATIONS	
Nominal voltage	12V
10-min rate Constant Power to 9.6V at 20°C	1800 Watts
10-min rate Constant Power to 1.6V/cell at 20°C	300 Watts
10-hr rate Capacity to 10.8V at 20°C	55 Ah
DIMENSIONS	
Length	216 (±0.7) mm
Width	168 (±0.5) mm
Height	223 (±0.7) mm
(height over terminals)	N/A mm
Mass (typical)	23.0 kg
TERMINAL TYPE	
Female threaded terminal	M6 mm
Torque	4.8 Nm
OPERATING TEMPERATURE RANGE	
Storage (in fully charged condition)	-20°C to +50°C
Charge	-15°C to +50°C
Discharge	-20°C to +60°C
STORAGE	
Capacity loss per month at 20°C (approx)	3%
CASE MATERIAL	
Standard Option	ABS (UL94:HB)
Flame retardant option (FR)	ABS (UL94:V0)
CHARGE VOLTAGE	
Float charge voltage at 20°C	13.65 (±1%) V 2.275 (±1%) V/cell
"Float Charge voltage temperature correction factor (for variations from the standard 20°C)"	-3 mV/cell/°C
Cyclic (or Boost) charge at 20°C	14.5 (±3%) V 2.42 (±3%) V/cell
"Cyclic Charge voltage temperature correction factor (for variations from the standard 20°C)"	-4 mV/cell/°C
CHARGE CURRENT	
Float charge current limit	No limit
Cyclic (or Boost) charge current limit	13.75 A
MAXIMUM DISCHARGE CURRENT	
1 second	800 A
1 minute	500 A
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE	
(according to EN IEC 60896-21)	
Internal resistance	10.09 mΩ
Short-Circuit current	1437 A
IMPEDANCE	
Measured at 1 kHz	4 mΩ
PERFORMANCE & CHARACTERISTICS	
Refer to the technical manual	SWL
DESIGN LIFE	
EUROBAT Classification: High Performance	10 to 12 years
Yuasa design life (at 20°C)	up to 10 years