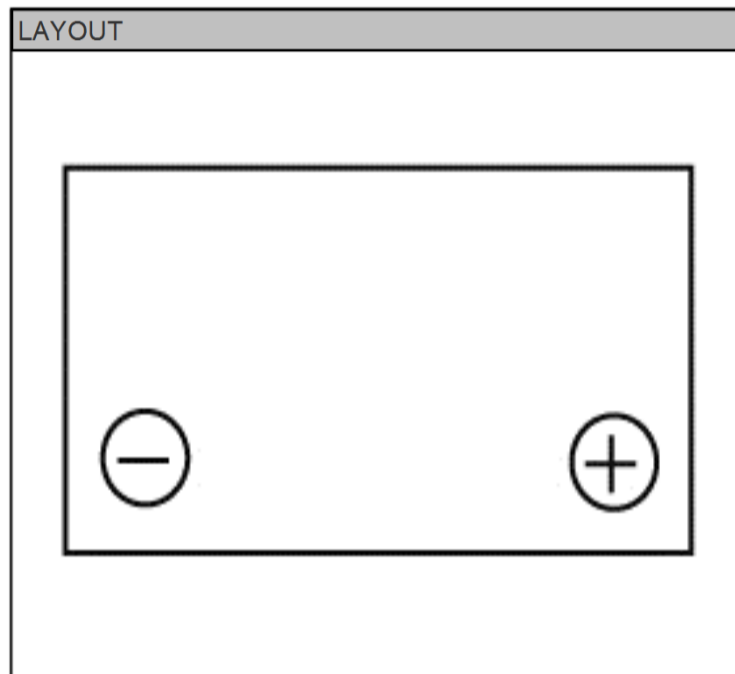


## SWL-Series - Valve Regulated Lead Acid Battery

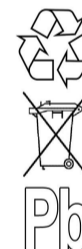
### SWL780V (FR)

SPECIFICATIONS		
Nominal voltage	12	V
10-min rate Constant Power to 9.6V at 20°C	780	Watts
10-min rate Constant Power to 1.6V/cell at 20°C	130	Watts
10-hr rate Capacity to 10.8V at 20°C	24.5	Ah
DIMENSIONS		
Length	166 (±1)	mm
Width	125 (±1)	mm
Height	175 (±2)	mm
(height over terminals)	N/A	mm
Mass (typical)	10.1	kg
TERMINAL TYPE		
Female threaded terminal	M5	mm
Torque	2.5	Nm
OPERATING TEMPERATURE RANGE		
Storage (in fully charged condition)	-20°C to +60°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 (UL.94: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	A
Cyclic (or Boost) charge current limit	6.13	A
MAXIMUM DISCHARGE CURRENT		
1 second	500	A
1 minute	150	A
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE (according to EN IEC 60896-21)		
Internal resistance	18	m
Short-Circuit current	800	A
IMPEDANCE		
Measured at 1 kHz	8.5	m
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
SAFETY		
<b>Installation</b>	Can be installed and operated in any orientation except permanently inverted	
<b>Handles</b>	Batteries must not be suspended by their handles (where fitted)	
<b>Vent valves</b>	Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.	
<b>Gas Release</b>	VRLA Batteries release hydrogen gas which can form explosive mixtures in air. Do not place inside a sealed container	
<b>Recycling</b>	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 DeTeImmobilien  
 UNDERWRITERS LABORATORIES Inc.



#### STANDARDS

IEC61056  
 IEC60896-21/22



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE  
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