SWL-Series - Valve Regulated Lead Acid Battery SWL2300E (FR)

SPECIFICATIONS				
Nominal voltage	12	V		
10-min rate Constant Power to 9.6V at 20°C	2300	Watts		
10-min rate Constant Power to 1.6V/cell at 20°C	383	Watts		
10-hr rate Capacity to 10.8V at 20°C	78	Ah		
DIMENSIONS	-			
Length	261 (±0.7)	mm		
Width	168 (±0.5)	mm		
Height	225 (±0.7)	mm		
(height over terminals)	N/A	mm		
Mass (typical)	27.0	kg		
TERMINAL TYPE				
Female threaded terminal	M6	mm		
Torque	4.8	Nm		
OPERATING TEMPERATURE RANGE				
Storage (in fully charged condition)	-20°C to	o +50°C		
Charge	-15°C to	o +50°C		
Discharge	-20°C to	-20°C to +60°C		
STORAGE				
Capacity loss per month at 20°C (approx)	3	%		
CASE MATERIAL				
Standard Option	ABS (UI	L.94:HB)		
Flame retardant option (FR)	ABS (U	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%) 2.42 (±3%)	V V/cell		
Cyclic Charge voltage temperature correction factor (for variations from the standard 20°C)	-4	mV/cell/°C		
CHARGE CURRENT	1			
Float charge current limit	No limit	A		
Cyclic (or Boost) charge current limit	19.50	A		
MAXIMUM DISCHARGE CURRENT				
1 second	800	A		
1 minute	400	A		
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE				
(according to EN IEC 60896-21)		-		
Internal resistance	7.71	mΩ		
Short-Circuit current	1857	A		
IMPEDANCE	1	•		
Measured at 1 kHz	5.5	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) SAFETY	up to 10	years		
Installation				
Can be installed and operated in any orientation except perm	anently inverted			
Handles				
Batteries must not be suspended by their handles (where fitte	∋d)			
Vent valves				
Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.				

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

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



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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 Issue No.: V.3 / Issue Date: March2011



YUASA BALLERY SALES UK LTD. Unit 13, Hunts Rise South Marston Industrial Park Swindon SN3 4TG

www.yuasaeurope.com

Gas Release

container

Recycling

regulations

SWL



