



SWUF390-12FR

Valve Regulated Lead-Acid (VRLA)
Absorbed Glass Mat (AGM)

Yuasa SWU Series with **HT X Alloy™**, high temperature batteries optimized for performance and life

SPECIFICATIONS

Battery Model:	SWUF390-12FR
Nominal Voltage:	12
Capacity: 15 minute rate, 1.67vpc @ 25°C (77°F)	391
20-hr rate, 1.75vpc @ 25°C (77°F)	104.0
Case Material:	UL94V-0
Terminal Options:	Front - M6 Stud Top - M6
Terminal Torque (Terminals using Bolts):	M6, 4.9Nm (43 in-lb)
Dimensions:	
◦ Length (mm inches)	508.0 20.00
◦ Width (mm inches)	106.0 4.17
◦ Case Height (mm inches)	236.0 9.29
◦ Height over Terminal (mm inches)	236.0 9.29
Weight (kg lbs):	34.0 74.96
Short circuit current (A):	2390
Maximum charge current (A):	25.0
Internal Resistance (mΩ):	3.5

GENERAL

Design Life:	10 Years
Flame arresting one-way vent	
Epoxy sealed terminals to prevent post leaks	
Rugged ABS cases to minimize handling damage	
Storage:	
◦ Capacity loss per month at 25°C (77°F)	~3%
◦ In fully charged condition	-20°C to 60°C (-4°F to 140°F)
Operating Temperature Range:	-40°C to 65°C (-40°F to 149°F)
◦ Refer to Product Manual for optimum temperature range	
Float Charge Voltage:	
◦ Charge voltage at 25°C (77°F)	2.275±1%/cell
◦ Temperature correction factor from 25°C (77°F)	-3mV per °C/cell

Features providing longer life:

HT X Alloy™

Proprietary Additives

Lead Calcium Grids

Primary Lead

Strategic use of Tin

Optimized AGM Separators

Applications:

Uninterruptible Power Supply (UPS)

Datacenter

Switchgear & Control

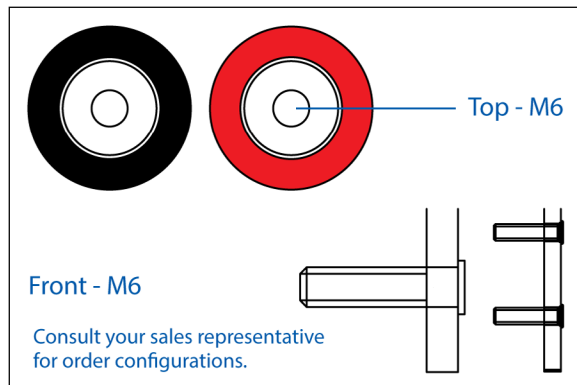
Energy



CERTIFICATIONS/COMPLIANCE

- ISO 9001
- ISO 14001
- IEC 60896-21
- UL recognized component, UL1989
- TAA Compliant - Available
- DRC Conflict Free

TERMINAL OPTIONS



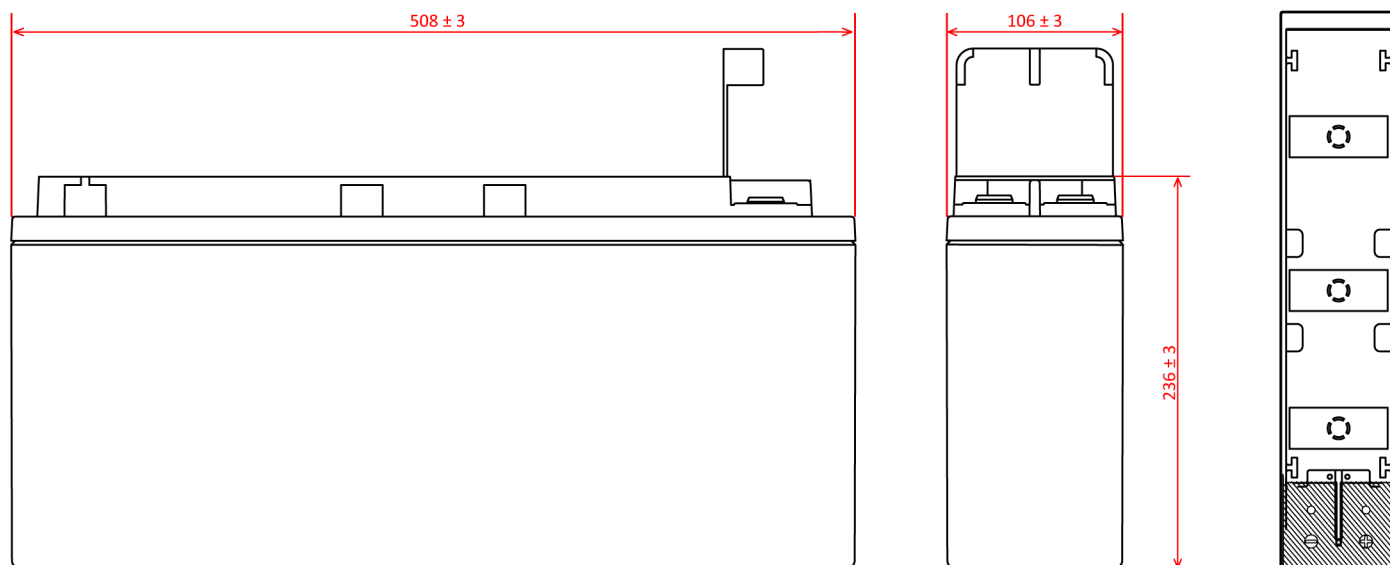
Non-spillable, meets or exceeds DOT and IATA requirements for non-hazardous transportation





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Discharge, Watts per Cell @ 25°C (77°F)

End vpc	1m	2m	4m	5m	6m	8m	10m	15m	20m	30m	45m	1h
1.75vpc	866	723	622	583	549	493	450	368	305	231	171	138
1.70vpc	934	785	669	625	587	523	475	389	318	238	175	138
1.67vpc	965	813	691	644	603	537	483	391	319	238	175	139
1.60vpc	1,048	883	743	690	642	563	500	396	323	240	176	139

Discharge, Amps @ 25°C (77°F)

End vpc	1m	2m	4m	5m	6m	8m	10m	15m	20m	30m	45m	1h
1.75vpc	482	407	348	325	306	274	244	195	160	121	89.2	71.2
1.70vpc	530	450	381	355	332	293	261	207	168	125	90.9	71.6
1.67vpc	557	473	399	370	346	304	270	210	170	126	91.4	71.8
1.60vpc	620	527	439	405	378	330	290	217	175	128	92.5	72.1

GS Yuasa Energy Solutions, Inc. (GYES) is an American subsidiary of GS Yuasa Corporation, the world's second largest lead battery manufacturer. GS Yuasa Corporation is a Japanese corporation known for quality and global firsts. GS Yuasa Group globally produces several battery chemistries serving many markets and applications, such as Backup Power, Renewable Energy, Traction, Automotive, Motorcycle, Satellites, Aircrafts, and more.

GYES leverages GS Yuasa's advanced technologies with proven successes in American markets with Lithium, and Lead-acid in Telecom, UPS, Alarm (Fire & Security), Energy Storage, and other applications.

Distributed By:



WARNING: Cancer and Reproductive Harm. Wash hands after handling. www.P65Warnings.ca.gov



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