



SWUF750-12FR

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:	SWUF750-12FR
Nominal Voltage:	12
Capacity: 15 minute rate, 1.67vpc @ 25°C (77°F)	751
20-hr rate, 1.75vpc @ 25°C (77°F)	218.0
Case Material:	UL94V-0
Terminal Options:	Front - M6 Stud Top - M8
Terminal Torque (Terminals using Bolts):	M6, 4.9Nm (43 in-lb) M8, 10.17Nm (90 in-lb)
Dimensions:	
◦ Length (mm inches)	604.0 23.78
◦ Width (mm inches)	123.0 4.84
◦ Case Height (mm inches)	320.0 12.60
◦ Height over Terminal (mm inches)	320.0 12.60
Weight (kg lbs):	67.0 147.71
Short circuit current (A):	3850
Maximum charge current (A):	49.8
Internal Resistance (mΩ):	2.5

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

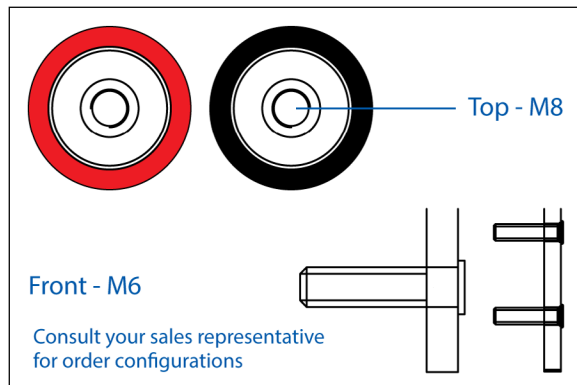
Energy



CERTIFICATIONS/COMPLIANCE

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

TERMINAL OPTIONS



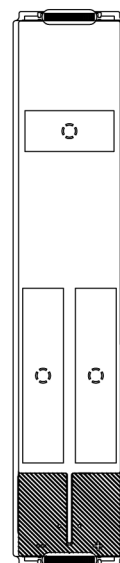
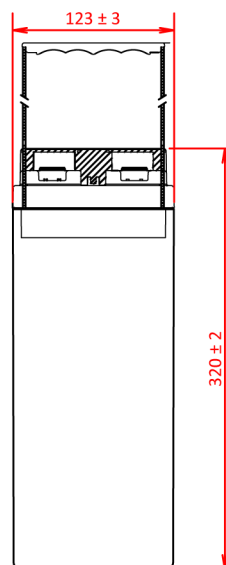
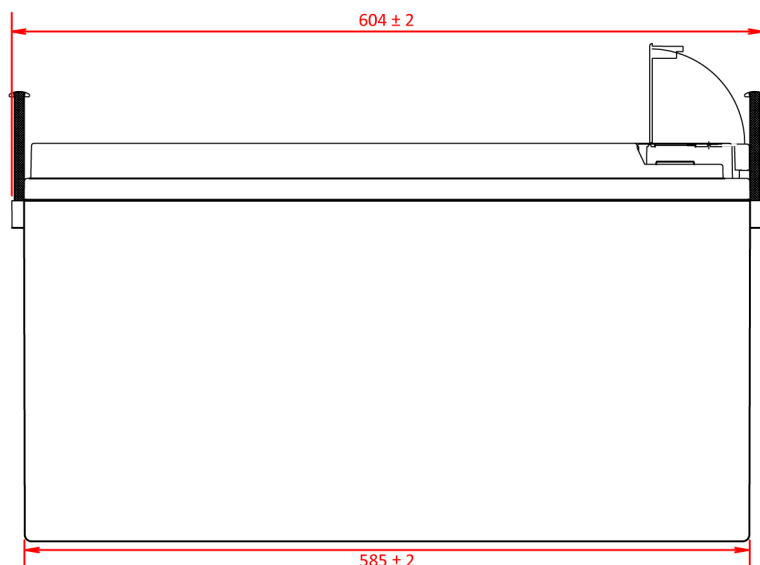
Non-spillable, meets or exceeds DOT and IATA requirements for non-hazardous transportation





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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	1,159	1,093	1,019	991	939	864	807	699	599	448	329	266
1.70vpc	1,283	1,201	1,119	1,089	1,027	938	868	738	622	463	339	273
1.67vpc	1,319	1,249	1,160	1,129	1,063	967	891	751	629	468	342	275
1.60vpc	1,461	1,367	1,264	1,232	1,154	1,040	949	782	643	477	346	278

Discharge, Amps @ 25°C (77°F)

End vpc	1m	2m	4m	5m	6m	8m	10m	15m	20m	30m	45m	1h
1.75vpc	641	605	564	548	518	475	441	379	322	238	172	138
1.70vpc	730	683	636	619	582	528	486	409	341	250	180	144
1.67vpc	761	721	670	652	612	553	506	421	349	255	183	146
1.60vpc	879	823	761	742	692	618	560	454	369	268	190	150

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.

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