



SWUF630-12FR

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:	SWUF630-12FR
Nominal Voltage:	12
Capacity: 15 minute rate, 1.67vpc @ 25°C (77°F)	633
20-hr rate, 1.75vpc @ 25°C (77°F)	204.0
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)	556.0 21.89
◦ Width (mm inches)	125.0 4.92
◦ Case Height (mm inches)	317.0 12.48
◦ Height over Terminal (mm inches)	317.0 12.48
Weight (kg lbs):	60.7 133.82
Short circuit current (A):	3700
Maximum charge current (A):	46.2
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

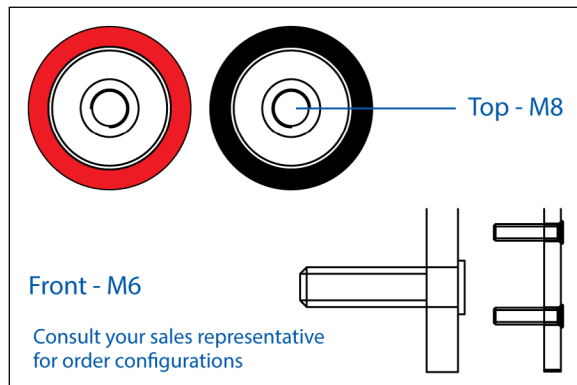
Energy



CERTIFICATIONS/COMPLIANCE

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

TERMINAL OPTIONS



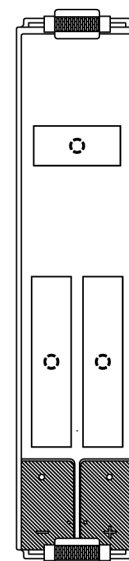
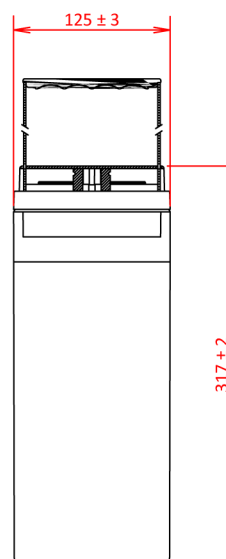
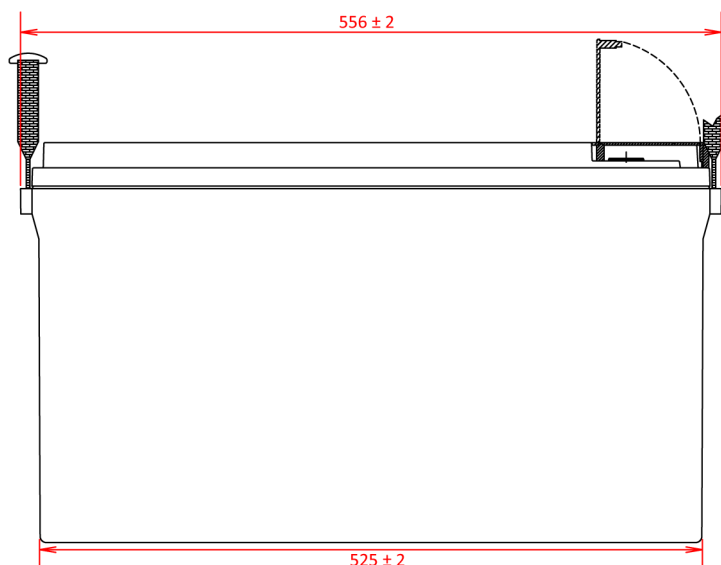
Non-spillable, meets or exceeds DOT and IATA requirements for non-hazardous transportation





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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	1,052	986	904	876	830	764	713	589	497	378	282	227
1.70vpc	1,202	1,099	998	963	909	829	767	621	516	392	290	233
1.67vpc	1,259	1,148	1,038	1,000	942	856	789	633	523	396	293	235
1.60vpc	1,401	1,271	1,140	1,093	1,024	922	842	661	535	404	297	238

Discharge, Amps @ 25°C (77°F)

End vpc	1m	2m	4m	5m	6m	8m	10m	15m	20m	30m	45m	1h
1.75vpc	586	550	501	484	457	419	389	318	267	200	148	117
1.70vpc	690	629	567	546	514	467	428	343	283	211	154	122
1.67vpc	736	670	601	575	540	488	447	355	290	216	157	125
1.60vpc	853	772	686	654	611	546	494	382	305	226	163	128

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



(800) 472-2879
www.gsyuasa-es.com
sales@gsyuasa-es.com

GS Yuasa Energy Solutions, Inc
1150 Northmeadow Pkwy, Suite 110
Roswell, GA 30076
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