



SWU585-12FR

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:	SWU585-12FR
Nominal Voltage:	12
Capacity: 15 minute rate, 1.67vpc @ 25°C (77°F)	584
20-hr rate, 1.75vpc @ 25°C (77°F)	155.0
Case Material:	UL94V-0
Terminal Options:	Top - M6
Terminal Torque (Terminals using Bolts):	M6, 4.9Nm (43 in-lb)
Dimensions:	
◦ Length (mm inches)	341.0 13.43
◦ Width (mm inches)	173.0 6.81
◦ Case Height (mm inches)	281.0 11.06
◦ Height over Terminal (mm inches)	281.0 11.06
Weight (kg lbs):	48.6 107.14
Short circuit current (A):	3205
Maximum charge current (A):	35.0
Internal Resistance (mΩ):	2.7

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

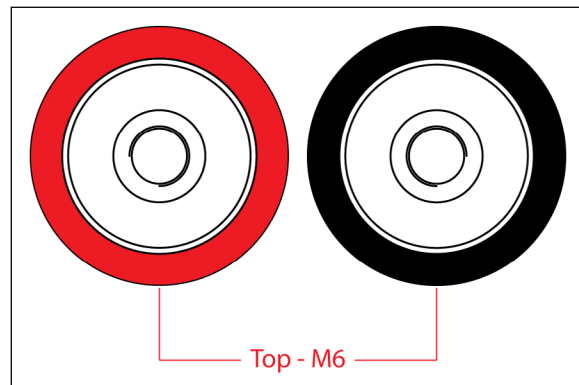
Energy



CERTIFICATIONS/COMPLIANCE

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

TERMINAL OPTIONS



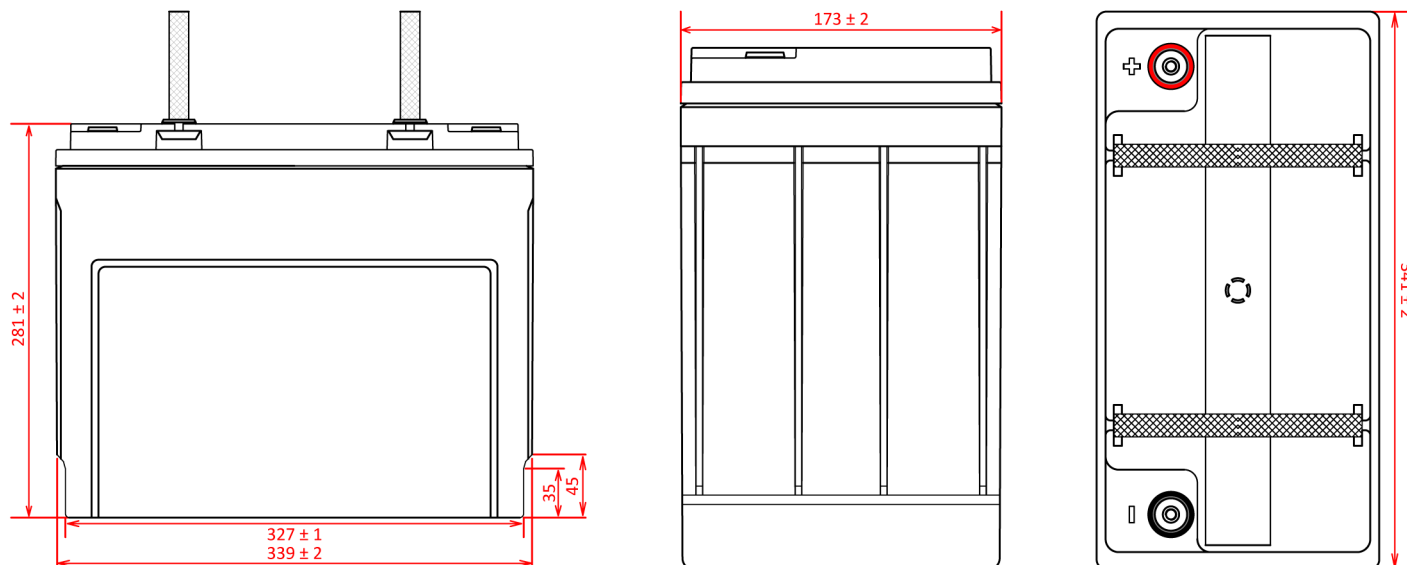
Non-spillable, meets or exceeds DOT and IATA requirements for non-hazardous transportation





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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	1,040	954	887	834	778	694	634	535	453	332	248	202
1.70vpc	1,139	1,045	964	900	837	744	682	570	473	345	256	209
1.67vpc	1,184	1,086	998	931	863	766	700	584	480	350	259	212
1.60vpc	1,307	1,199	1,092	1,014	936	825	750	620	497	360	266	217

Discharge, Amps @ 25°C (77°F)

End vpc	1m	2m	4m	5m	6m	8m	10m	15m	20m	30m	45m	1h
1.75vpc	572	524	485	455	420	374	344	280	233	168	124	100
1.70vpc	644	591	541	504	464	410	374	301	245	176	129	104
1.67vpc	680	624	569	529	486	428	389	311	251	179	131	106
1.60vpc	789	724	652	603	550	480	433	341	267	189	138	112

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