GS SE65-12

Rechargeable Sealed Lead - Acid (VRLA) Battery

SUPERLAC

10 Year Life Stationary Type - SE Series

Nominal Voltage 12 Volt

20 Hour Rate Capacity 65 Ah

Dimensions	mm	Inches	Tolerance
Length	363	14.29	+/- 1mm (0.04In)
Width	128	5.04	+/- 1mm (0.04In)
Case Height	201	7.91	+/- 1mm (0.04In)
Terminal Height	201	7.91	+/- 1mm (0.04In)

	Kg.	Lbs.	
Weight	22.00	48.50	(approx.)

Case Material Synthetic Resin (ABS)

Terminal Threaded Post (M6)

Maximum Short Duration Discharge Current
(Maximum Duration: 1 Minute) 195 Amperes

Internal Resistance *(Fully Charged Battery)*
4.6 mOhm (approx.)

Energy Density (@ 20 Hour Rate)
83.52 Watt-Hours / Litre (1.37 Watt-Hours / Cubic Inch)

Specific Energy (@ 20 Hour Rate)
35.45 Watt-Hours / Kg (16.08 Watt-Hours / Pound)

Operating Temperature Range

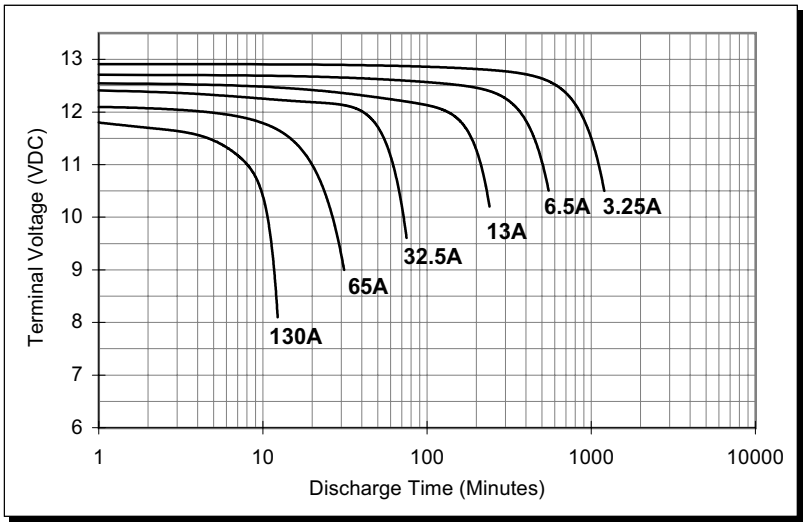
Discharge	-15°C (5°F) ~ 45°C (113°F)
Recharge	0°C (32°F) ~ 40°C (104°F)
Storage	-20°C (-4°F) ~ 40°C (104°F)

Self Discharge Rate
3% Per Month at 25°C (77°F)

Vibration Test No Loss in Capacity or Performance
2000 Cycles Per Minute, 2.5 mm (0.10 Inch) Excursion, 2 Hours

Constant Current Discharge Characteristics (25°C / 77°F)

Discharge Time	Capacity in Ah's	Discharge Amperes	Final Voltage	Discharge C-Rate
100 Hrs	67.60	0.68	11.40	0.01
20 Hrs	65.00	3.25	10.50	0.05
9 Hrs	59.59	6.50	10.50	0.10
4 Hrs	52.00	13.00	10.20	0.20
75 Min	40.63	32.50	9.60	0.50
31 Min	33.80	65.00	9.00	1.00
12 Min	26.65	130.00	8.10	2.00



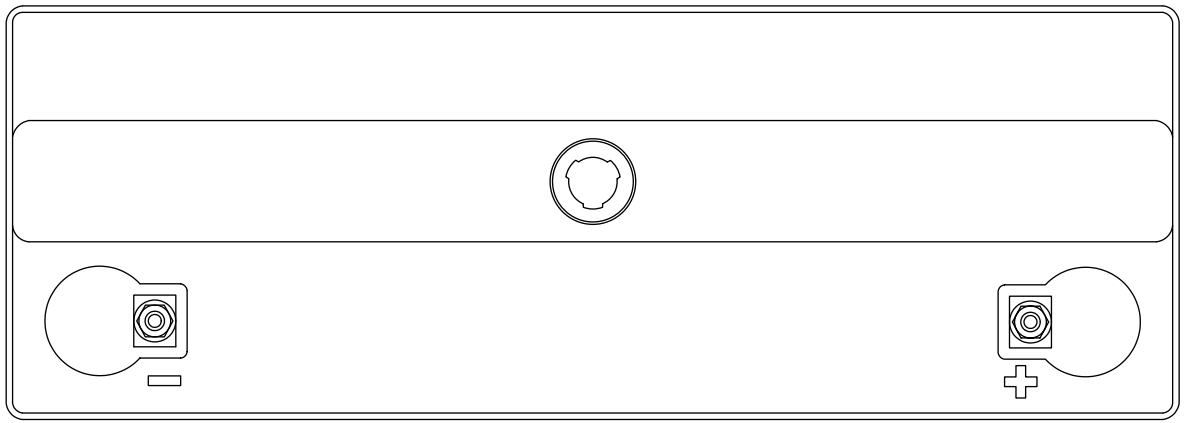
Constant Voltage Recharge Methods and Notes

Cyclic Application Recharge
- Charge between 14.4 to 14.7 Volts DC. (2.4 to 2.45 Volts Per Cell.)
- Limit Initial Recharge Current to 16.25 Amperes or less. (Minimum Recommended is 6.5 Amperes.)
  (Higher charge currents may be used for Rapid recharge, provided a Heat Protection and/or Safety System is used - Consult with us.)
- Remove from Charge or switch to Standby Charge when Current draw falls to about 650 mA.
- When Recharge Voltage requires Temperature Compensation, use the coefficient of - 5mV / °C / Cell. Derate from 25ºC and 2.45 VPC.

Standby Application Recharge
- Charge between 13.5 to 13.8 Volts DC. (2.25 to 2.3 Volts Per Cell.) 13.65 Volts DC or 2.275 VPC is recommended for maximum life.
- When Recharge Voltage requires Temperature Compensation, use the coefficient of - 3mV / °C / Cell. Derate from 25ºC and 2.275 VPC.

Temperature Compensation
- Employ Charge Voltage Temperature Compensation when the battery temperature is less than 5°C or greater than 35°C.

Recognized by UL File No. MH13567



GS Superlac SE Series Rechargeable Sealed Lead-Acid (VRLA) Battery			
Model:	**SE65-12**		
Voltage:	**12**	Capacity:	**65 Ah (20 Hr)**
Terminal:	Threaded Post (M6)		
Dimensions:	mm (Inch)		
Drawing:	SE65-12J-0109CE		
Date:	2001.09.21		
DO NOT SCALE DRAWING