

25 - 150 Ah
0.095 - 0.568 KW/Cell

DOUGLAS® SAFE GUARD RACKLINE™

FOR MORE DEMANDING POWER

REQUIREMENTS, Douglas® Safeguard Rackline™ series of valve-regulated, lead-acid batteries provides high performance and reliability in a 19 or 23-inch relay rack design. The Rackline 12-Volt unit is designed for maximum power in a minimal footprint. Each jar and cover is constructed of flame-retardant UL94 V0 halogen-free PC/ABS plastic, with a LOI of 32%.

The insulated front terminals and connectors are accessible through a hinged inspection flap on the cover. Rackline provides you a capacity range from 25 Ah to 150 Ah, with a design life of 10+ years under recommended operating conditions.



DESIGN FEATURES:

- **Post Seal.** Triple barrier seal eliminates acid leaks and post movement.
- **Terminal Post.** Large cross section, heavy-duty post with copper insert allows for very high discharge currents.
- **Plates.** Thick, pasted construction for both positive and negative plates, with special lead/calcium/tin alloy. Resists corrosion for up to 15 years life at 68° F (20° C).
- **Separators.** High-quality microporous glass fibers facilitate gas diffusion, optimize acid absorption and lower electrical resistance. Low internal resistance, high-energy density, separator maintains compression throughout life, giving excellent vibration resistance.
- **Electrolyte.** High-purity sulfuric acid absorbed in separator has 1.280 SG. No acid spill, easy to handle and install, supplied filled and charged, no acid handling.
- **Float Voltage.** Douglas Safeguard batteries provide optimum performance when float charged at $2.25 \pm 1\%$ Vpc for temperatures between 59° and 77° F (15° and 25° C). For installations where the battery will operate for extended periods outside this range, it is recommended that the float voltage be adjusted 1 to 2 mV/cell/°F (2 to 4 mV/cell/°C).
- **Safety Valve.** Every cell has its own one-way valve which operates between 1.45 – 2.20 psi for safety in the event of abusive operating conditions. Valve-regulated operation, with controllable internal pressure for safety and reliability and very low maintenance in service.
- **Flame Arrestor.** Built-in above every safety valve. Maximum safety in the event of abusive discharge.
- **Container and Cover.** Made of thick wall PC/ABS with high mechanical strength and impact resistance. Non-toxic, non-halogenated flame retardant to UL 94 V0, LOI 32%. Non-clamped installation allows air circulation for environmental control and optimum service life. In the event of fire, non-toxic materials offer personnel safety.
- **Inter-cell/unit Connectors.** Heavy-duty tin-plated copper connectors minimize voltage drop in battery circuits. Connections do not require torque maintenance nor grease (NO-OX).
- **Storage.** The shelf life of Douglas Safeguard batteries is affected by temperature. The lower the storage temperature, the longer the shelf life. At 77° F (25° C) batteries lose about 3% capacity per month.

DOUGLAS® SAFEGUARD
RACKLINE™


DOUGLAS BATTERY
Connect with a leader



Product Specifications

Item Number	Type	Ah ¹	Dimensions						Weight	
			Length		Width		Height		lb.	kg
			in.	mm	in.	mm	in.	mm		
24001	DGS12-25F	25	10.8	275	3.9	100	7.6	192	26.5	12.0
24002	DGS12-50F	50	10.8	275	3.9	100	11.6	295	50.7	23.0
24003	DGS12-100F	92	22.0	558	4.9	125	9.1	230	90.4	41.0
24004	DGS12-150F	150	22.0	558	4.9	125	12.7	323	136.7	62.0

¹ - Based on 8-hour rate to 1.75 Vpc @ 77°F (25°C)

Performance Specifications

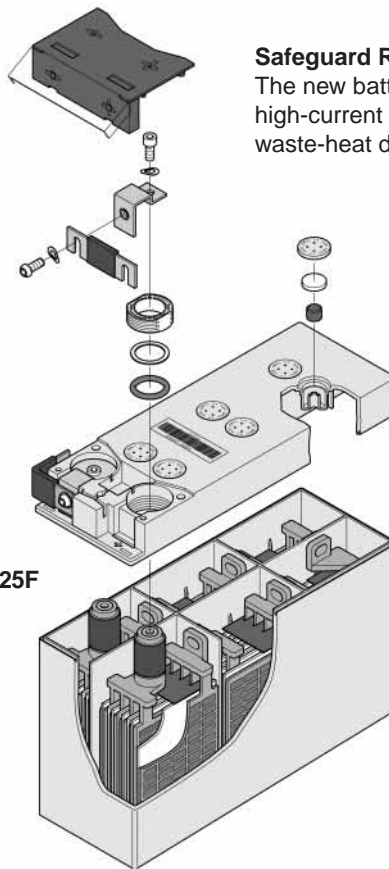
Discharge Rates in Amperes @ 77°F (25°C)

1.75 Vpc																
Type	Minutes					Hours										
	1	5	10	15	30	1	1.5	2	3	4	5	6	8	10	12	24
DGS12-25F	109	84.8	61.6	48.8	30.7	18.2	12.9	10.2	7.2	5.7	4.7	4.0	3.1	2.6	2.2	1.2
DGS12-50F	217	170	123	97.5	61.3	36.4	25.8	20.3	14.5	11.3	9.4	8.0	6.3	5.2	4.4	2.4
DGS12-100F	400	312	227	179	113	66.9	47.4	37.4	26.6	20.9	17.2	14.7	11.5	9.5	8.1	4.5
DGS12-150F	652	509	370	293	184	109	77.3	61.0	43.4	34.0	28.1	24.0	18.8	15.5	13.3	7.3

Discharge Rates in Watts/Cell @ 77°F (25°C)

1.67 Vpc																
Type	Minutes					Hours										
	1	5	10	15	30	1	1.5	2	3	4	5	6	8	10	12	24
DGS12-25F	222	170	121	94.7	58.9	34.9	24.9	19.7	14.1	11.1	9.2	7.8	6.1	5.0	4.2	2.2
DGS12-50F	443	339	242	189	118	69.8	49.8	39.5	28.2	22.1	18.4	15.6	12.2	10.0	8.4	4.5
DGS12-100F	816	624	445	348	217	128	91.6	72.6	51.8	40.7	33.8	28.7	22.4	18.3	15.5	8.2
DGS12-150F	1330	1017	726	568	353	209	149	118	84.5	66.4	55.1	46.9	36.6	29.9	25.2	13.4

All data subject to change without notice.



Safeguard Rackline™

The new battery layout for optimized high-current performance and improved waste-heat dispersion.

Cutaway View of DGS12-25F

DOUGLAS® SAFEGUARD
RACKLINE™

ISO 9001
QS-9000



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