



# Element®

eco-friendly • efficient • energy

## Gel

### ELEMENT® GEL BLOCS

- Valve Regulated Lead Acid (VRLA) gel battery.
- Gel electrolyte design.
- Integrated removable carrying strap handles optional.
- Reinforced polypropylene case and cover – reducing battery wall deflection.
- State of the art, second generation helium leak detection system confirms reliable post and jar-to-cover seals.
- Thick high-tin, low-calcium, silver positive plate design.
- Manufactured in Columbus, Georgia.
- ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System) certified manufacturing facility.
- UL recognized component.
- Approved as non-spillable per regulations set forth by DOT, IMDG, IATA, and ICAO.
- Recyclable to world standards.



### SPECIFICATIONS

- Alloy:** Positive: Lead, Tin, Calcium and Silver  
Negative: Lead Calcium
- Terminals:** Threaded (M6) copper alloy, Flag, Marine, and SAE
- Container:** Reinforced polypropylene (standard)
- Safety Vent:** Low pressure, one-way, self-resealing safety vents



### PERFORMANCE SPECIFICATIONS

Group Size	Battery DC Volts	Capacity		Battery Dimensions			Weight* lbs.
		6 Hr Rate*	20 Hr Rate*	(inches)			
		Ahr (to 1.70 VPC @25°C)	Ahr (to 1.70 VPC @25°C)	Length	Width	Height	
U1	12	26.4	30	7.75	5.19	6.55	24
22NF	12	44.8	50	8.99	5.55	8.12	38
24	12	63.6	72	10.19	6.61	8.11	52
27	12	75.0	86	12.06	6.61	8.11	62
30H/31	12	88.4	104	13.00	6.61	8.81	72

\*Nominal ratings



**Element**<sup>®</sup>

eco-friendly • efficient • energy

*Gel*

**Amperes @ 25°C (77°F)**

	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
1.75	E12VU1	0.34	1.28	1.51	2.36	2.78	3.05	3.38	3.80	4.36	5.13	6.24	8.01	10.99	19.05	32.26	50.19
Final	E12V22NF	0.54	2.14	2.52	4.00	4.72	5.19	5.77	6.47	7.37	8.59	10.34	13.16	18.44	32.88	53.77	82.76
VPC	E12V24	0.78	3.02	3.57	5.69	6.72	7.39	8.23	9.25	10.53	12.29	14.85	18.95	26.72	47.11	78.86	127.00
	E12V27	0.96	3.64	4.29	6.82	8.02	8.81	9.79	10.94	12.41	14.38	17.23	21.75	30.32	52.85	87.06	138.27
	E12V31	1.12	4.48	5.22	8.06	9.42	10.30	11.39	12.78	14.58	17.06	20.65	26.42	37.38	63.71	105.49	174.12

	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
1.78	E12VU1	0.34	1.27	1.49	2.35	2.76	3.02	3.36	3.78	4.33	5.08	6.19	7.96	10.92	18.95	31.81	49.32
Final	E12V22NF	0.53	2.12	2.50	3.97	4.68	5.15	5.73	6.42	7.31	8.51	10.25	13.03	18.27	32.58	53.02	80.77
VPC	E12V24	0.77	3.00	3.54	5.65	6.67	7.35	8.17	9.17	10.44	12.18	14.70	18.75	26.41	46.50	77.43	122.91
	E12V27	0.96	3.61	4.26	6.76	7.97	8.76	9.73	10.86	12.32	14.27	17.10	21.61	30.11	52.44	85.73	135.20
	E12V31	1.11	4.43	5.17	8.01	9.36	10.24	11.33	12.70	14.50	16.95	20.52	26.25	37.15	63.06	103.96	169.53

	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
1.80	E12VU1	0.33	1.27	1.49	2.33	2.74	3.00	3.33	3.75	4.30	5.04	6.14	7.90	10.84	18.80	31.38	48.11
Final	E12V22NF	0.53	2.10	2.48	3.93	4.64	5.11	5.68	6.36	7.24	8.43	10.15	12.90	18.09	32.22	52.26	78.44
VPC	E12V24	0.77	2.98	3.52	5.61	6.63	7.30	8.12	9.09	10.35	12.08	14.58	18.60	26.21	45.99	76.00	118.81
	E12V27	0.96	3.60	4.24	6.73	7.93	8.72	9.68	10.82	12.26	14.21	17.03	21.48	29.91	51.83	84.50	131.92
	E12V31	1.10	4.39	5.14	7.96	9.30	10.18	11.26	12.62	14.40	16.84	20.38	26.07	36.88	62.46	101.91	163.59

	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
1.81	E12VU1	0.33	1.26	1.47	2.31	2.71	2.98	3.30	3.71	4.25	4.99	6.08	7.82	10.71	18.54	30.83	47.18
Final	E12V22NF	0.53	2.08	2.46	3.90	4.60	5.05	5.62	6.28	7.14	8.32	10.02	12.71	17.79	31.65	51.31	76.00
VPC	E12V24	0.76	2.96	3.50	5.58	6.59	7.25	8.07	9.03	10.28	11.99	14.48	18.45	25.98	45.47	74.77	115.33
	E12V27	0.95	3.58	4.21	6.68	7.87	8.65	9.61	10.71	12.14	14.08	16.87	21.31	29.62	51.21	83.17	128.03
	E12V31	1.10	4.35	5.11	7.91	9.24	10.11	11.18	12.54	14.30	16.72	20.23	25.87	36.60	61.89	100.78	159.16

	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
1.83	E12VU1	0.33	1.24	1.46	2.28	2.68	2.94	3.26	3.67	4.20	4.93	6.00	7.72	10.57	18.23	30.18	45.40
Final	E12V22NF	0.52	2.06	2.43	3.86	4.55	5.00	5.55	6.21	7.06	8.21	9.88	12.54	17.54	31.14	50.12	73.35
VPC	E12V24	0.75	2.92	3.45	5.50	6.50	7.16	7.97	8.92	10.15	11.83	14.26	18.16	25.53	44.55	73.03	110.82
	E12V27	0.94	3.53	4.16	6.60	7.78	8.55	9.49	10.59	11.99	13.89	16.63	21.01	29.24	50.19	81.31	122.91
	E12V31	1.09	4.31	5.04	7.80	9.11	9.97	11.03	12.36	14.10	16.48	19.94	25.49	36.05	60.75	98.43	151.76



**Element**<sup>®</sup>

eco-friendly • efficient • energy

*Gel*

**Amperes @ 25°C (77°F)**

1.85 Final VPC	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
	E12VU1	0.32	1.23	1.44	2.25	2.64	2.90	3.21	3.61	4.14	4.86	5.89	7.58	10.37	17.77	29.19	43.72
	E12V22NF	0.52	2.03	2.40	3.80	4.48	4.92	5.47	6.11	6.95	8.09	9.72	12.32	17.21	30.42	48.75	70.29
	E12V24	0.74	2.88	3.40	5.43	6.41	7.06	7.86	8.80	10.01	11.66	14.05	17.87	25.08	43.63	71.29	107.13
	E12V27	0.93	3.48	4.11	6.51	7.67	8.44	9.36	10.42	11.81	13.69	16.40	20.72	28.78	49.16	78.77	117.78
	E12V31	1.07	4.26	4.97	7.69	8.99	9.83	10.87	12.18	13.90	16.24	19.64	25.11	35.49	59.62	95.74	144.92

1.87 Final VPC	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
	E12VU1	0.32	1.19	1.40	2.19	2.56	2.81	3.12	3.50	4.01	4.70	5.70	7.32	10.03	17.10	27.96	41.31
	E12V22NF	0.50	1.97	2.32	3.68	4.34	4.77	5.31	5.93	6.75	7.84	9.41	11.92	16.63	29.37	46.52	66.13
	E12V24	0.73	2.80	3.31	5.27	6.23	6.85	7.63	8.55	9.73	11.33	13.64	17.36	24.32	41.99	68.01	101.62
	E12V27	0.90	3.38	3.98	6.31	7.44	8.18	9.08	10.12	11.46	13.31	15.98	20.18	28.06	47.49	74.97	110.61
	E12V31	1.05	4.15	4.84	7.48	8.74	9.56	10.56	11.84	13.50	15.76	19.06	24.35	34.39	58.02	92.58	138.27

1.90 Final VPC	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
	E12VU1	0.30	1.14	1.34	2.09	2.44	2.68	2.97	3.33	3.81	4.47	5.43	6.97	9.55	16.18	26.39	38.11
	E12V22NF	0.48	1.88	2.21	3.51	4.14	4.56	5.06	5.66	6.41	7.43	8.91	11.25	15.62	27.40	43.33	60.88
	E12V24	0.69	2.67	3.16	5.05	5.97	6.58	7.33	8.21	9.35	10.89	13.13	16.69	23.40	40.12	64.53	96.28
	E12V27	0.86	3.22	3.80	6.02	7.09	7.79	8.67	9.67	10.96	12.72	15.27	19.31	26.89	44.98	69.97	102.46
	E12V31	1.00	3.98	4.64	7.16	8.36	9.14	10.10	11.31	12.89	15.05	18.18	23.21	32.73	55.55	88.06	128.03

1.92 Final VPC	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
	E12VU1	0.29	1.08	1.27	1.98	2.32	2.54	2.82	3.17	3.63	4.25	5.17	6.63	9.01	15.26	24.77	35.30
	E12V22NF	0.46	1.79	2.11	3.36	3.95	4.34	4.82	5.37	6.08	7.03	8.41	10.60	14.68	25.61	40.52	56.33
	E12V24	0.66	2.54	3.00	4.80	5.67	6.24	6.93	7.76	8.83	10.29	12.41	15.79	22.19	37.85	60.84	90.13
	E12V27	0.82	3.06	3.60	5.70	6.72	7.39	8.21	9.18	10.43	12.09	14.50	18.32	25.46	42.46	65.34	94.45
	E12V31	0.95	3.79	4.42	6.81	7.94	8.68	9.59	10.74	12.23	14.27	17.23	21.98	30.96	51.73	81.48	117.78

1.94 Final VPC	Model Number	Time															
		100 hr	24 hr	20 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2 hr	1 hr	0.5 hr	0.25 hr
	E12VU1	0.28	1.03	1.20	1.87	2.20	2.41	2.67	2.99	3.42	4.01	4.87	6.25	8.50	14.33	22.94	32.57
	E12V22NF	0.43	1.68	1.99	3.16	3.74	4.11	4.57	5.08	5.74	6.64	7.92	9.96	13.74	23.83	37.86	52.23
	E12V24	0.63	2.41	2.85	4.54	5.36	5.90	6.57	7.36	8.39	9.77	11.76	14.95	20.97	35.63	56.92	83.99
	E12V27	0.77	2.90	3.42	5.42	6.38	7.01	7.80	8.71	9.90	11.47	13.73	17.32	24.02	39.53	60.02	85.01
	E12V31	0.89	3.54	4.14	6.40	7.47	8.17	9.01	10.09	11.49	13.42	16.18	20.59	29.03	48.10	75.36	104.63

---

# GNB Industrial Power – The Industry Leader.



GNB Industrial Power, a division of Exide Technologies, is a global leader in motive power battery and charger systems for electric lift trucks and other material handling equipment. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in more than 80 countries) in sales and service, GNB Industrial Power is best positioned to satisfy your power needs locally as well as all over the world.

Based on over 100 years of technological innovation, the Motive Power group leads the industry with the most recognized global brands, such as GNB® FLOODED CLASSIC®,

GNB® FLOODED CLASSIC PLATINUM™, TUBULAR-HP® HIGH PERFORMANCE, TUBULAR-LMT™ LOW MAINTENANCE, ELEMENT® and GNB® FUSION™. They have come to symbolize quality, reliability, performance and excellence in all the markets served.

GNB Industrial Power takes pride in its commitment to a better environment. Its Total Battery Management program, an integrated approach to manufacturing, distributing and recycling of lead acid batteries, has been developed to help ensure a safe and responsible life cycle for all of its products.

## GNB Industrial Power

USA – Tel: 877.462.4636

Canada – Tel: 800.268.2698

[www.gnb.com](http://www.gnb.com)

GB4091 2013-06

**GNB**  
**INDUSTRIAL POWER**  
*A Division of Exide Technologies*