

RELAY GEL[®]



Relay Gel[®]

Powered By Sonnenschein[®]

- Valve Regulated Lead Acid (VRLA) gel battery.
- Gel electrolyte design utilizing Sonnenschein[®] technology.
- Increased runtime - reducing truck roll/maintenance cost
- Integrated removable carrying strap handles optional.
- Robust design - reinforced polypropylene case and cover reduces battery wall deflection.
- Advanced manufacturing processes - second generation helium leak detection system confirms reliable post and jar-to-cover seals.
- Thick lead-calcium-tin positive plate design.
- Nominal float voltage 13.5 to 13.8 volts at 25°C.
- ISO 9001:2000 certified manufacturing facility.
- UL recognized component.
- Approved as non-spillable per regulations set forth by DOT, IMDG, IATA, and ICAO.
- Fully recyclable.
- Manufactured in Columbus, Georgia.



SPECIFICATIONS

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

Performance Specifications

Group Size	Battery DC Volts	Reserve Capacity (Min)	Nominal Capacity			Nominal Dimensions			Weight** lbs.
			Amp-hours (to 1.75 VPC @ 25°C)			Inches			
			5 Hr Rate	8 Hr Rate	20 Hr. Rate	Length	Width	Height*	
22NF	12	85	43	46	50	8.99	5.55	8.11	38
24	12	132	61	66	72	10.19	6.61	8.12	51
27	12	155	72	78	86	12.06	6.61	8.13	60
30H/31	12	212	85	91	104	13.0	6.61	8.54	72

* To top of cover

** Approximate ship weight



Amperes @ 25° C (77° F)

1.75 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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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

1.78 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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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

1.80 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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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

1.81 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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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

1.83 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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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



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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	.95	3.79	4.42	6.81	7.94	8.68	9.56	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
	R12V22NF	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
	R12V24	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
	R12V27	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
	R12V31	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

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