

# **Deka**<sup>®</sup>

# **unigy I**<sup>®</sup>

*Tomorrow's energy systems...today™*



*Standard layout configuration for telecommunications (48-volt)*

***Gel valve-regulated, lead-acid battery  
technology designed for ultimate performance***

- Tank formed plates...Optimize cell voltage balance.
- Epoxy-sealed posts and recessed terminals...Eliminate post leaks.
- Solid copper, tin-plated intercell connectors with insulators...Ensure highest current-carrying capability.
- UL 1989 recognized component
- Non-spillable battery... I.C.A.O., I.M.D.G., I.A.T.A., and D.O.T. air transport approved.
- Reinforced case, complete with carrying handle...Resists bulging and meets safety requirements (flammability rating, ASTM D-635, 28 LOI, UL94-V0).
- Computer-aided design and manufacturing...Ensures quality products through control of processes and standards.
- Made in U.S.A...Your assurance of quality.

QUALITY SYSTEM  
CERTIFIED TO  
**ISO 9001**

The Deka Unigy I line of gel valve-regulated batteries are designed specifically for telecommunications. Available in both 75 A.H. and 100 A.H. capacities, these batteries are housed in flame-retardant, 12-volt monoblocks.

## Specifications

<b>NOMINAL VOLTAGE:</b> 12-Volt	<b>CONTAINER/COVER:</b> Flame Retardant Polypropylene - (Flammability Rating-ASTMD-635, 28 LOI, UL 94-V0)
<b>ALLOY:</b> Lead Calcium Tin	<b>SAFETY VENT:</b> Self-Sealing
<b>ELEMENT POST:</b> Heavy-Duty	<b>FLOAT VOLTAGE:</b> 2.25 Volts Per Cell ± .01 volt (Temperature Compensated) (13.50 Volts Per 6-Cell Unit)
<b>POST SEAL:</b> Epoxy Sealed	<b>RECHARGE VOLTAGE:</b> 2.30 Volts Per Cell ± .01 volt (Temperature Compensated) (13.80 Volts Per 6-Cell Unit)
<b>TERMINAL:</b> Inserted Post 1/4" x 20 "No-Oxide Grease" is not required.	<b>SPECIFIC GRAVITY:</b> 1.317
	<b>INTERCELL CONNECTORS:</b> Tin-Plated, Solid Copper Bars with Flame-Retardant Insulators.

## Constant Current Discharge Rates To Various End Voltages at 77°F (25°C)

End Voltage	Battery Type	1 Hr	1.5 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	7 Hr	8 Hr	9 Hr	10 Hr	12 Hr	20 Hr	24 Hr	48 Hr	100 Hr
1.94 V.P.C.	12 GVR-75	34.60	26.67	21.75	16.07	12.80	10.70	9.20	8.10	7.23	6.52	5.97	5.10	3.27	2.78	1.50	0.76
	12 GVR-100	44.40	33.98	27.84	20.61	16.50	13.78	11.87	10.42	9.33	8.43	7.68	6.56	4.13	3.50	1.83	0.90
1.90 V.P.C.	12 GVR-75	38.00	29.47	23.90	17.53	13.93	11.60	9.97	8.77	7.75	7.07	6.44	5.50	3.52	3.00	1.61	0.83
	12 GVR-100	49.10	37.70	30.72	22.72	18.18	15.19	13.09	11.52	10.29	9.31	8.49	7.24	4.56	3.86	2.01	0.99
1.88 V.P.C.	12 GVR-75	40.30	30.53	24.65	18.00	14.25	11.88	10.22	8.97	8.01	7.24	6.62	5.67	3.62	3.09	1.66	0.85
	12 GVR-100	50.86	38.88	31.68	23.42	18.72	15.65	13.48	11.85	10.59	9.57	8.74	7.45	4.70	3.98	2.07	1.02
1.85 V.P.C.	12 GVR-75	42.00	32.00	25.65	18.63	14.70	12.20	10.47	9.19	8.19	7.39	6.75	5.77	3.69	3.15	1.70	0.88
	12 GVR-100	52.84	40.38	32.88	24.19	19.30	16.15	13.92	12.25	10.95	9.90	9.03	7.71	4.90	4.12	2.14	1.05
1.80 V.P.C.	12 GVR-75	44.00	33.20	26.50	19.13	15.00	12.44	10.65	9.33	8.25	7.50	6.80	5.86	3.75	3.20	1.73	0.90
	12 GVR-100	54.65	41.86	33.96	24.96	19.92	16.65	14.30	12.56	11.22	10.14	9.25	7.88	4.97	4.20	2.19	1.08
1.75 V.P.C.	12 GVR-75	45.50	33.33	26.90	19.33	15.15	12.54	10.72	9.40	8.36	7.56	6.90	5.89	3.77	3.22	1.74	0.90
	12 GVR-100	55.44	42.50	34.44	25.25	20.10	16.78	14.43	12.69	11.34	10.25	9.35	7.96	5.02	4.24	2.20	1.08
1.70 V.P.C.	12 GVR-75	45.70	34.00	27.15	19.47	15.28	12.60	10.77	9.44	8.41	7.60	6.94	5.91	3.78	3.22	1.74	0.90
	12 GVR-100	56.09	42.94	34.80	25.54	20.30	16.94	14.56	12.79	11.43	10.33	9.42	8.02	5.06	4.28	2.22	1.09
1.67 V.P.C.	12 GVR-75	45.90	34.07	27.20	19.50	15.30	12.62	10.78	9.46	8.43	7.61	6.95	5.93	3.79	3.23	1.74	0.90
	12 GVR-100	56.59	43.26	35.04	25.73	20.42	17.04	14.64	12.88	11.49	10.40	9.48	8.08	5.09	4.31	2.24	1.10
1.63 V.P.C.	12 GVR-75	46.30	34.67	27.30	19.57	15.38	12.70	10.83	9.49	8.44	7.62	6.96	5.95	3.80	3.24	1.75	0.90
	12 GVR-100	56.91	43.52	35.28	25.84	20.52	17.11	14.70	12.91	11.52	10.41	9.50	8.09	5.09	4.31	2.24	1.10
1.60 V.P.C.	12 GVR-75	46.60	34.47	27.50	19.70	15.45	12.78	10.92	9.57	8.50	7.68	7.00	5.98	3.82	3.25	1.75	0.91
	12 GVR-100	57.03	43.58	35.30	25.84	20.52	17.11	14.70	12.91	11.52	10.41	9.50	8.09	5.09	4.31	2.24	1.10

Note: All ratings are after 10 cycles and conform to BCI specifications.

## Discharge Ratings in Amp Hours To Various End Voltages at 77°F (25°C)

End Voltage	Battery Type	1 Hr	1.5 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	7 Hr	8 Hr	9 Hr	10 Hr	12 Hr	20 Hr	24 Hr	48 Hr	100 Hr
1.94 V.P.C.	12 GVR-75	35	40	44	48	51	54	55	57	58	59	60	61	65	67	72	76
	12 GVR-100	44	51	56	62	66	69	71	73	75	76	77	79	83	84	88	90
1.90 V.P.C.	12 GVR-75	38	44	48	53	56	58	60	61	62	64	64	66	70	72	78	83
	12 GVR-100	49	56	61	68	73	76	79	81	82	84	85	87	91	93	96	99
1.88 V.P.C.	12 GVR-75	40	46	49	54	57	59	61	63	64	65	66	68	72	74	80	85
	12 GVR-100	51	58	63	70	75	78	81	83	85	86	87	89	94	96	99	102
1.85 V.P.C.	12 GVR-75	42	48	51	56	59	61	63	64	66	67	68	69	74	76	82	88
	12 GVR-100	53	61	66	73	77	81	84	86	88	89	90	93	98	99	103	105
1.80 V.P.C.	12 GVR-75	44	50	53	57	60	62	64	65	66	68	68	70	75	77	83	90
	12 GVR-100	55	63	68	75	80	83	86	88	90	91	92	95	99	101	105	108
1.75 V.P.C.	12 GVR-75	46	50	54	58	61	63	64	66	67	68	69	71	75	77	83	90
	12 GVR-100	55	64	69	76	80	84	87	89	91	92	94	96	100	102	106	108
1.70 V.P.C.	12 GVR-75	46	51	54	58	61	63	65	66	67	68	69	71	76	77	84	90
	12 GVR-100	56	64	70	77	81	85	87	90	91	93	94	96	101	103	107	109
1.67 V.P.C.	12 GVR-75	46	51	54	58	61	63	65	66	67	68	70	71	76	77	84	90
	12 GVR-100	57	65	70	77	82	85	88	90	92	94	95	97	102	103	107	110
1.63 V.P.C.	12 GVR-75	46	52	55	59	62	64	65	66	68	69	70	71	76	78	84	90
	12 GVR-100	57	65	71	78	82	86	88	90	92	94	95	97	102	103	107	110
1.60 V.P.C.	12 GVR-75	47	52	55	59	62	64	66	67	68	69	70	72	76	78	84	91
	12 GVR-100	57	65	71	78	82	86	88	90	92	94	95	97	102	103	107	110

Note: All ratings are after 10 cycles.

BATTERY	A	B	C	D	E	F	WEIGHT
12GVR-75	10.20 259.1	6.56 166.6	8.24 209.3	8.12 206.2	1.75 44.5	.97 24.6	52.1 23.7
12GVR-100	12.93 328.4	6.75 171.5	8.70 221.0	8.58 217.9	1.75 44.5	1.21 30.7	72.6 33.0

Chart contains dimensions in inches over millimeters or pounds over kilograms.  
12GVR-100 shown in drawing.



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