

Deka®

unigy I®

Tomorrow's energy systems...today™



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

- Absorbed glass-mat construction...Lowers internal resistance for superior high-rate, short-term discharges.
- Tank-formed plates...Optimize cell voltage balance.
- Epoxy-sealed posts and recessed terminals...Eliminate post leaks.
- Solid copper, tin-plated inter-battery connectors with insulators...Ensure highest current-carrying capability.
- Reinforced case, complete with carrying handle...Resists bulging and meets safety requirements (UL94 V0 / > 28% L.O.I.).
- Computer-aided design and manufacturing...Ensures quality products through control of processes and standards.
- UL recognized component (UL Approved).
- Made in U.S.A...Your assurance of quality.

QUALITY SYSTEM
CERTIFIED TO
ISO 9001
QS 9000

The Deka Unigy I line of absorbed valve-regulated, lead-acid batteries is designed specifically for high-rate uninterruptible power supplies (UPS). Available in both 75 A.H. and 100 A.H. capacities, these batteries are housed in flame-retardant, 12-volt monoblocs. I.C.A.O., I.M.D.G., I.A.T.A. and D.O.T. air transport approved.

Specifications

NOMINAL VOLTAGE: 12-Volt
ALLOY: Lead Calcium Tin
ELEMENT POST: Heavy-Duty
POST SEAL: Epoxy-Sealed
TERMINAL: Inserted Post 1/4" x 20
 "No-Oxide Grease" is not required
CONTAINER/COVER:
 Flame Retardant Polypropylene -
 Rated UL94 V0 / > 28% L.O.I.

SAFETY VENT: Low Pressure Self-Sealing
FLOAT VOLTAGE: 2.25 Volts Per Cell \pm 0.01 vpc
 (Temperature Compensated) (13.50 Volts Per 6-Cell Unit)
EQUALIZE VOLTAGE: 2.30 Volts Per Cell \pm 0.01 vpc
 (Temperature Compensated) (13.80 Volts Per 6-Cell Unit)
SPECIFIC GRAVITY: 1.300
INTER-BATTERY CONNECTORS: Tin-Plated, Solid Copper Bars
 with Flame-Retardant Insulators are available

Discharge Ratings in Watts Per Cell To Various End Voltages [at 77°F (25°C)]

Volts Per Cell (V.P.C.)	Battery Type	1 Min.	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	60 Min.
1.75	12AVR-75	N/A	493	352	276	227	169	100
	12AVR-100	N/A	658	469	367	303	225	133
1.70	12AVR-75	766	500	356	277	228	169	100
	12AVR-100	1022	667	475	370	304	226	134
1.67	12AVR-75	795	517	365	284	233	172	101
	12AVR-100	1059	690	487	379	310	229	134
1.63	12AVR-75	889	548	378	289	236	172	101
	12AVR-100	1156	731	503	386	315	229	135
1.60	12AVR-75	951	569	384	294	238	172	101
	12AVR-100	1157	797	526	394	318	228	136

Note: Above ratings conform to IEEE-485 standards.

Discharge Ratings in Amperes To Various End Voltages [at 77°F (25°C)]

Volts Per Cell (V.P.C.)	Battery Type	1 Min.	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	60 Min.	1½ Hr.	3 Hr.	8 Hr.	20 Hr.	100 Hr.
1.85	12AVR-75	N/A	N/A	N/A	N/A	N/A	N/A	49.64	36.00	20.25	8.62	3.73	0.84
	12AVR-100	N/A	N/A	N/A	N/A	N/A	N/A	66.19	48.00	27.00	11.50	4.97	1.12
1.80	12AVR-75	N/A	N/A	N/A	N/A	N/A	N/A	50.84	36.70	20.63	8.77	3.83	0.89
	12AVR-100	N/A	N/A	N/A	N/A	N/A	N/A	67.79	48.93	27.50	11.69	5.10	1.18
1.75	12AVR-75	N/A	268.50	187.10	144.80	118.10	87.75	51.38	37.15	20.81	8.82	3.84	0.89
	12AVR-100	N/A	358.00	249.50	193.00	157.50	117.00	68.50	49.53	27.75	11.76	5.11	1.18
1.70	12AVR-75	444.20	273.80	190.30	146.10	119.20	88.09	51.79	37.38	20.88	8.87	3.87	0.89
	12AVR-100	592.30	365.00	253.70	194.90	158.90	117.50	69.10	49.83	27.83	11.83	5.16	1.18
1.67	12AVR-75	464.40	284.20	195.50	150.00	121.80	89.47	52.18	37.50	21.03	8.91	3.90	0.89
	12AVR-100	619.20	378.90	260.70	200.00	162.30	119.30	69.60	50.00	28.03	11.88	5.20	1.18
1.63	12AVR-75	525.00	302.80	202.80	153.10	123.80	89.81	52.38	37.63	21.13	8.93	3.90	0.89
	12AVR-100	700.00	403.80	270.40	204.10	165.10	119.80	69.80	50.17	28.17	11.91	5.20	1.18
1.50	12AVR-75	706.70	336.00	214.30	158.00	125.90	90.50	53.38	38.50	21.52	9.05	3.90	0.89
	12AVR-100	942.30	448.00	285.70	210.60	167.90	120.70	71.20	51.33	28.69	12.06	5.20	1.18

Note: Above ratings conform to IEEE-485 standards.

Technical drawing of a battery showing top and side views. Dimensions are labeled: A ± .030 (width), B ± .030 (depth), C ± .030 (height), and D ± .030 (height). The top view shows six cells and two terminals. The side view shows the internal structure and terminal placement.

BATTERY	A	B	C	D	E	F	WEIGHT
12AVR-75	10.20 259.1	6.56 166.6	8.24 209.3	8.12 206.2	1.53 38.9	.97 24.6	55 25.0
12AVR-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 32.6

Chart contains dimensions in inches over millimeters or pounds over kilograms.
 12AVR-75 shown in drawing.

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