



# 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 performance.
- Individually tank-formed plates...  
Optimize uniformity of cell voltage.
- Epoxy-sealed posts and recessed terminals...Eliminate post leaks.
- UL recognized component (UL Approved).
- 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.
- Made in U.S.A...  
Your assurance of quality.

QUALITY SYSTEM  
CERTIFIED TO  
**ISO 9001**  
**QS 9000**

The Deka Unigy I AVR 30 and 40 absorbed valve-regulated, lead-acid batteries are designed specifically for long discharge telecommunications applications. Available in both 30 Ah and 40 Ah 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 #10-32  
 "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  
**OPTIONAL:** High-Strength Steel Outer Jacket is available

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

Volts Per Cell (V.P.C.)	Battery Type	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	60 Min.
1.75	12AVR-30	161.10	114.41	91.83	77.60	59.46	35.82
	12AVR-40	214.80	152.55	122.45	103.46	79.28	47.77
1.67	12AVR-30	169.28	119.65	95.50	80.66	61.33	36.83
	12AVR-40	225.71	159.55	127.35	107.56	81.78	49.11

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	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	60 Min.	2 Hr.	4 Hr.	8 Hr.	20 Hr.	48 Hr.	100 Hr.
1.85	12AVR-30	—	—	—	—	—	17.35	10.25	5.88	3.25	1.43	0.62	0.31
	12AVR-40	—	—	—	—	—	23.14	13.58	7.67	4.23	1.83	0.79	0.39
1.80	12AVR-30	—	—	—	—	—	17.84	10.57	6.03	3.34	1.47	0.64	0.32
	12AVR-40	—	—	—	—	—	23.79	14.00	7.92	4.38	1.89	0.82	0.40
1.75	12AVR-30	87.96	61.14	48.48	40.71	30.89	18.15	10.72	6.10	3.38	1.49	0.65	0.32
	12AVR-40	117.31	81.49	64.65	54.28	41.19	24.20	14.20	8.02	4.43	1.91	0.83	0.41
1.70	12AVR-30	—	—	—	—	—	18.42	10.85	6.15	3.42	1.51	0.66	0.32
	12AVR-40	—	—	—	—	—	24.56	14.36	8.11	4.48	1.94	0.84	0.41
1.67	12AVR-30	92.91	64.23	50.64	42.24	31.93	18.70	10.92	6.20	3.44	1.52	0.66	0.32
	12AVR-40	123.88	85.64	67.52	56.32	42.57	24.93	14.47	8.16	4.50	1.94	0.84	0.41

Note: Above ratings conform to IEEE-485 standards.

BATTERY	A	B	C	D	E	WEIGHT
12AVR-30	6.55	5.00	6.97	.87	.64	21 lbs.
	166.37	127.00	177.04	22.10	16.26	9.53 kg
12AVR-40	8.16	5.00	6.97	.87	.78	26 lbs.
	207.26	127.00	177.04	22.10	19.81	11.80 kg

Chart contains dimensions in inches over millimeters or pounds over kilograms.  
 12AVR-40 shown in drawing.

RECYCLE

UL Recognized Component

Note: Dimensions do not include optional outer jacket.

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