



# 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**  
**ISO/TS 16949**  
**ISO 14001**

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.
1.67	12AVR-30	169	120	95.5	80.3	61.3	36.8
	12AVR-40	226	160	127	107	81.8	49.1
1.75	12AVR-30	161	114	91.8	77.6	59.5	35.8
	12AVR-40	215	153	122	103	79.3	47.8

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	15 Min.	30 Min.	1 Hr.	3 Hr.	5 Hr.	8 Hr.	10 Hr.	12 Hr.	20 Hr.	24 Hr.
1.75	12AVR-30	48.5	30.9	18.2	7.7	5.1	3.4	2.8	2.4	1.5	1.3
	12AVR-40	64.7	41.2	24.2	10.1	6.7	4.4	3.6	3.1	1.9	1.6
1.80	12AVR-30	—	—	17.8	7.6	5.0	3.3	2.8	2.3	1.5	1.2
	12AVR-40	—	—	23.8	10.0	6.6	4.4	3.6	3.0	1.9	1.6
1.85	12AVR-30	—	—	17.4	7.4	4.9	3.3	2.7	2.3	1.4	1.2
	12AVR-40	—	—	23.1	9.7	6.4	4.2	3.5	2.9	1.8	1.5
1.88	12AVR-30	—	—	16.6	7.1	4.7	3.1	2.6	2.2	1.4	1.2
	12AVR-40	—	—	22.2	9.3	6.1	4.0	3.3	2.8	1.7	1.5
1.90	12AVR-30	—	—	16.1	6.9	4.5	3.0	2.5	2.1	1.3	1.1
	12AVR-40	—	—	21.5	9.0	5.9	3.9	3.2	2.7	1.7	1.4

Note: Above ratings conform to IEEE-485 standards.

A  $\pm$  .030

B  $\pm$  .030

C  $\pm$  .030

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

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

UL Recognized Component

Note: Dimensions do not include optional outer jacket.

**"POWERED FOR PERFORMANCE"®**

**EAST PENN manufacturing co., inc.**

Lyon Station, PA 19536-0147 • Phone: 610-682-6361 • Fax: 610-682-4781

**Order Department Hotline: 610-682-4231**

www.eastpennunigy.com

e-mail: sales@eastpennunigy.com