



PHOTOVOLTAIC BATTERIES



UNIGY II MODULES

The DEKA UNIGY II LINE features two module designs with a wide range of capacities and sizes to fit the requirements of renewable energy applications. These modules are constructed using the finest quality materials and state-of-the-art manufacturing techniques enhancing their performance in these demanding applications.

Built-in advanced features such as:

- “Two Way” Post design is lead plated solid copper providing a large contact area with front access bolting for easier installation and maintenance.
- Pure Lead (99.2%) positive grid alloy is very resistant to corrosion/growth.
- Positive and Negative plates are formed with IPF™ technology to ensure plates operate at 100% capacity.
- Collapsible bottom bridge accommodates for normal plate growth, reducing stress on battery post seals.
- Air Gap between cells has been designed to reduce foot print while maintaining required cooling.
- Front safety shield design easily slides on and off without tools for quicker assembly.

DEKA UNIGY II INTERLOCK™ SYSTEM utilizes:

- Interlocking modules require only front access bolts for mounting, providing quick and safe installation.
- Modules are coated with acid resistant epoxy powder paint.
- Each module has mounting holes for grounding option.
- Standard one-piece base enables it to be used as anchoring template. Anchors can be drilled and installed with base in place.
- Meets UBC Zone 4 certification of ground level in most applications up to 8 modules high.

DEKA UNIGY II NON-INTERLOCK SYSTEM utilizes:

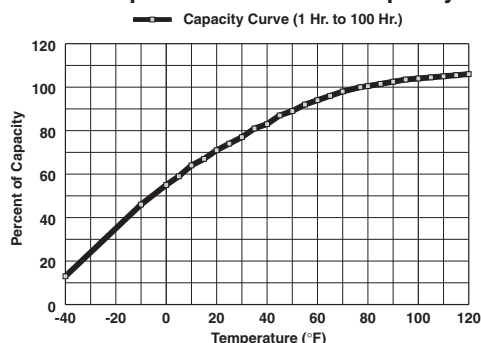
- Non-Interlock modules require front and rear access bolts for mounting, providing easy and safe installation.
- Modules are coated with acid resistant epoxy powder paint.
- Each module has mounting holes for grounding option.
- Standard two-piece base enables anchors to be drilled and installed with base in place.
- Meets UBC Zone 4 certification of ground level in most applications up to 8 modules high.

FEATURES AND BENEFITS

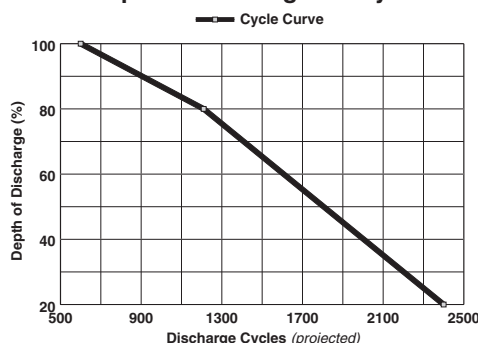
Container and Cover	Impact-Resistant Polypropylene, UL 94 V-0, 28% L.O.I. (Optional)
Separators	Microporous Glass Mat
Individual Plate Formation	Shipped at 100% Capacity
Cycle Life	2400 cycles @ 20% DOD

CELL TYPE	Ratings in Amperes at 77°F (25°C) to											
	1.75 v.p.c.				1.81 v.p.c.				1.84 v.p.c.			
	8 HR.	10 HR.	24 HR.	100 HR.	8 HR.	10 HR.	24 HR.	100 HR.	8 HR.	10 HR.	24 HR.	100 HR.
AVR45-5	11.0	10.0	5.0	1.2	11.0	9.0	5.0	1.2	11.0	9.0	4.0	1.2
AVR45-7	17.0	14.0	7.0	1.8	17.0	14.0	7.0	1.8	16.0	14.0	7.0	1.8
AVR45-9	23.0	19.0	9.0	2.4	22.0	19.0	9.0	2.4	22.0	18.0	9.0	2.4
AVR45-11	29.0	24.0	11.0	3.0	28.0	23.0	11.0	3.0	27.0	23.0	11.0	2.9
AVR45-13	34.0	29.0	14.0	3.6	34.0	28.0	13.0	3.6	33.0	27.0	13.0	3.5
AVR45-15	40.0	34.0	16.0	4.2	39.0	33.0	16.0	4.2	38.0	32.0	15.0	4.1
AVR45-17	45.7	38.4	18.3	4.8	44.7	37.4	18.0	4.8	43.4	36.6	17.7	4.7
AVR45-19	51.4	43.2	20.6	5.4	50.3	42.0	20.2	5.4	48.9	41.1	19.9	5.3
AVR45-21	57.1	48.0	22.9	6.0	55.9	46.7	22.4	6.0	54.3	45.7	22.1	5.9
AVR45-23	62.9	52.8	25.2	6.7	61.5	51.4	24.7	6.6	59.7	50.3	24.3	6.5
AVR45-25	68.6	57.6	27.5	7.3	67.1	56.1	26.9	7.2	65.1	54.9	26.5	7.1
AVR45-27	74.3	62.4	29.8	7.9	72.7	60.7	29.2	7.8	70.6	59.4	28.7	7.7
AVR45-29	80.0	67.2	32.1	8.5	78.2	65.4	31.4	8.4	76.0	64.0	30.9	8.2
AVR45-31	85.7	72.0	34.4	9.1	83.8	70.1	33.7	9.0	81.4	68.6	33.1	8.8
AVR45-33	91.4	76.8	36.7	9.7	89.4	74.7	35.9	9.6	86.9	73.1	35.3	9.4
AVR75-5	20.0	16.0	8.0	2.1	19.0	16.0	7.0	2.0	18.0	15.0	7.0	2.0
AVR75-7	29.0	25.0	12.0	3.1	28.0	23.0	11.0	3.0	27.0	23.0	11.0	2.9
AVR75-9	39.0	33.0	16.0	4.2	37.0	31.0	15.0	4.0	36.0	30.0	15.0	3.9
AVR75-11	49.0	41.0	20.0	5.2	47.0	39.0	19.0	5.0	45.0	38.0	18.0	4.9
AVR75-13	59.0	49.0	23.0	6.3	56.0	47.0	22.0	6.0	54.0	46.0	22.0	5.9
AVR75-15	69.0	57.0	27.0	7.3	65.0	54.0	26.0	7.0	63.0	53.0	26.0	6.8
AVR75-17	79.0	66.0	31.0	8.4	74.0	62.0	30.0	8.0	72.0	61.0	29.0	7.8
AVR75-19	88.0	74.0	35.0	9.4	84.0	70.0	33.0	9.0	82.0	68.0	33.0	8.8
AVR75-21	98.0	82.0	39.0	10.5	93.0	78.0	37.0	10.0	91.0	76.0	36.0	9.8
AVR75-23	108	90.0	43.0	11.5	102	86.0	41.0	11.0	100	84.0	40.0	10.8
AVR75-25	118	98.0	47.0	12.5	112	93.0	45.0	12.0	109	91.0	44.0	11.7
AVR75-27	128	107	51.0	13.6	121	101	48.0	13.0	118	99.0	47.0	12.7
AVR75-29	138	115	55.0	14.6	130	109	52.0	14.0	127	106	51.0	13.7
AVR75-31	147	123	59.0	15.7	140	117	56.0	15.0	136	114	55.0	14.7
AVR75-33	157	131	63.0	16.7	149	124	59.0	16.0	145	122	58.0	15.7
AVR95-7	35.6	29.8	14.5	4.0	35.0	29.4	14.4	4.0	34.4	28.9	14.2	3.9
AVR95-9	47.5	39.8	19.3	5.4	46.7	39.2	19.2	5.3	45.9	38.6	18.9	5.3
AVR95-11	59.4	49.7	24.2	6.7	58.4	49.0	23.9	6.7	57.3	48.2	23.7	6.6
AVR95-13	71.2	59.6	29.0	8.1	70.1	58.9	28.7	8.0	68.8	57.9	28.4	7.9
AVR95-15	83.1	69.6	33.8	9.4	81.8	68.7	33.5	9.3	80.3	67.5	33.1	9.2
AVR95-17	95.0	79.5	38.7	10.8	93.5	78.5	38.3	10.6	91.7	77.2	37.8	10.5
AVR95-19	107	89.5	43.5	12.1	105	88.3	43.1	12.0	103	86.8	42.6	11.8
AVR95-21	119	99.4	48.3	13.4	117	98.1	47.9	13.3	115	96.5	47.3	13.1
AVR95-23	131	109	53.2	14.8	129	108	52.7	14.6	126	106	52.0	14.5
AVR95-25	142	119	58.0	16.1	140	118	57.5	16.0	138	116	56.8	15.8
AVR95-27	154	129	62.8	17.5	152	128	62.2	17.3	149	125	61.5	17.1
AVR95-29	166	139	67.7	18.8	164	137	67.0	18.6	161	135	66.2	18.4
AVR95-31	178	149	72.5	20.2	175	147	71.8	20.0	172	145	71.0	19.7
AVR95-33	190	159	77.3	21.5	187	157	76.6	21.3	183	154	75.7	21.0
AVR125-33	250	210	101	29.3	246	207	99.7	28.9	242	204	98.2	28.5

Temperature Effects on Capacity



Depth of Discharge vs. Cycles



QUALITY SYSTEM
CERTIFIED TO
ISO 9001
ISO/TS 16949
ISO 14001



UL Recognized Component

"POWERED FOR PERFORMANCE"®
EAST PENN manufacturing co., inc.

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