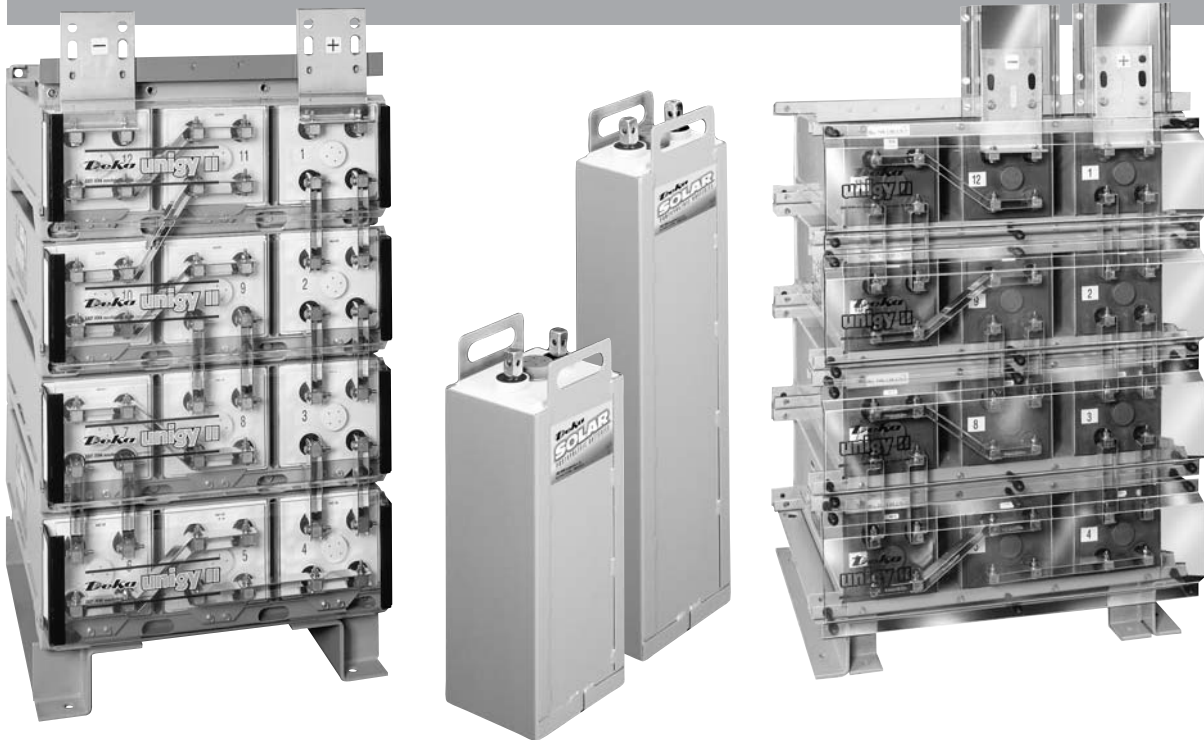


# DEKA SOLAR<sup>®</sup>

## PHOTOVOLTAIC BATTERIES

### UNIGY II MODULES

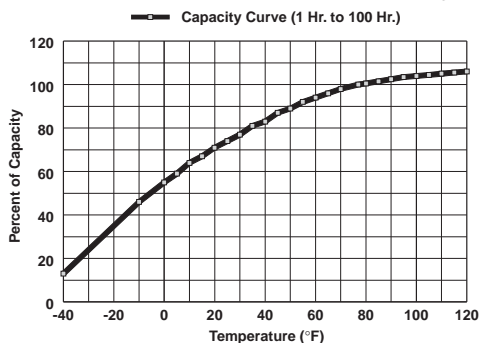


The **DEKA UNIGY II LINE** includes a wide range of capacities and sizes to fit the requirements of renewable energy applications. The **DEKA UNIGY II STANDARD DESIGN** allow modules to be stacked horizontally and connected by only four bolts, for quick and safe battery installation. The cell terminals are solid copper with lead plating, and are designed for maximum conductivity. The modules are coated and protected with a thick layer of powdered epoxy. The new **DEKA UNIGY II INTERLOCK SYSTEM** utilizes interlocking modules to deliver more power in less space, while maintaining cooling requirements. The **DEKA UNIGY II INTERLOCK SYSTEM** is designed with advanced features providing easy and safe installation such as "Two Way" post, front access bolting and easy on/off front shield. Equipped with a standard two-piece Interlock™ base, the system meets the latest UBC97 Zone 3 fault line specifications and is certified up to 8 modules high.

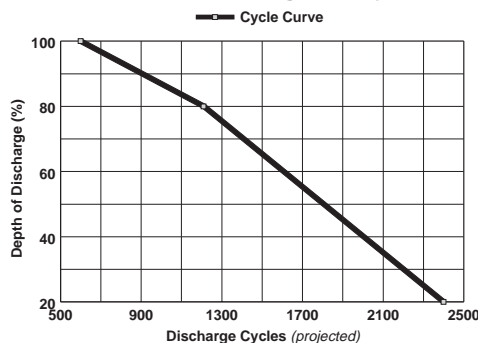
FEATURES AND BENEFITS	
Container and Cover	Impact-Resistant Polypropylene, 28% L.O.I. (Optional)
Separators	Microporous Glass Mat
Tank Formed Plates	Shipped at 100% Capacity
Cycle Life	2400 cycles @ 20% DOD

CELL TYPE	Ratings in Amperes at 77°F (25°C) to											
	1.75 v.p.c.				1.78 v.p.c.				1.81 v.p.c.			
	100 HR.	24 HR.	10 HR.	8 HR.	100 HR.	24 HR.	10 HR.	8 HR.	100 HR.	24 HR.	10 HR.	8 HR.
AVR45-5	1.2	5	10	11	1.2	5	10	11	1.2	5	9	11
AVR45-7	1.8	7	14	17	1.8	7	14	17	1.8	7	14	17
AVR45-9	2.4	9	19	23	2.4	9	19	23	2.4	9	19	22
AVR45-11	3.0	11	24	29	3.0	11	24	28	3.0	11	23	28
AVR45-13	3.6	14	29	34	3.6	14	29	34	3.6	13	28	34
AVR45-15	4.2	16	34	40	4.2	16	33	40	4.2	16	33	39
AVR75-5	2.1	8	16	20	2.0	8	16	19	2.0	7	16	19
AVR75-7	3.1	12	25	29	3.0	11	24	28	3.0	11	23	28
AVR75-9	4.2	16	33	39	4.0	15	31	38	4.0	15	31	37
AVR75-11	5.2	20	41	49	5.0	19	39	47	5.0	19	39	47
AVR75-13	6.3	23	49	59	6.0	22	47	57	6.0	22	47	56
AVR75-15	7.3	27	57	69	7.0	26	55	66	7.0	26	54	65
AVR75-17	8.4	31	66	79	8.0	30	63	75	8.0	30	62	74
AVR75-19	9.4	35	74	88	9.1	34	71	85	9.0	33	70	84
AVR75-21	10.5	39	82	98	10.1	37	79	94	10.0	37	78	93
AVR75-23	11.5	43	90	108	11.1	41	86	104	11.0	41	86	102
AVR75-25	12.5	47	98	118	12.1	45	94	113	12.0	45	93	112
AVR75-27	13.6	51	107	128	13.1	49	102	123	13.0	48	101	121
AVR75-29	14.6	55	115	138	14.1	52	110	132	14.0	52	109	130
AVR75-31	15.7	59	123	147	15.1	56	118	141	15.0	56	117	140
AVR75-33	16.7	63	131	157	16.1	60	126	151	16.0	59	124	149
AVR85-7	3.5	13	27	33	3.5	13	27	33	3.4	13	27	32
AVR85-9	4.7	17	37	44	4.6	17	36	43	4.6	17	36	43
AVR85-11	5.8	22	46	55	5.8	22	45	54	5.7	21	45	53
AVR85-13	7.0	26	55	66	6.9	26	54	65	6.9	26	54	64
AVR85-15	8.2	31	64	77	8.1	30	63	76	8.0	30	63	75
AVR85-17	9.3	35	73	87	9.3	34	72	87	9.2	34	71	85
AVR85-19	10.5	39	82	98	10.4	39	81	98	10.3	38	80	96
AVR85-21	11.7	44	91	109	11.6	43	90	108	11.5	43	89	107
AVR85-23	12.8	48	100	120	12.7	47	99	119	12.6	47	98	118
AVR85-25	14.0	52	110	131	13.9	52	108	130	13.7	51	107	128
AVR85-27	15.1	57	119	142	15.0	56	117	141	14.9	55	116	139
AVR85-29	16.3	61	128	153	16.2	60	126	152	16.0	60	125	150
AVR85-31	17.5	65	137	164	17.4	64	135	163	17.2	64	134	160
AVR85-33	18.6	70	146	175	18.5	69	144	173	18.3	68	143	171
AVR95-7	4.0	14	30	36	4.0	14	30	35	4.0	14	29	35
AVR95-9	5.4	19	40	47	5.4	19	40	47	5.3	19	39	47
AVR95-11	6.7	24	50	59	6.7	24	49	59	6.7	24	49	58
AVR95-13	8.1	29	60	71	8.0	29	59	71	8.0	29	59	70
AVR95-15	9.4	34	70	83	9.4	34	69	83	9.3	34	69	82
AVR95-17	10.8	39	80	95	10.7	39	79	94	10.7	38	78	93
AVR95-19	12.1	43	89	107	12.1	43	89	106	12.0	43	88	105
AVR95-21	13.4	48	99	119	13.4	48	99	118	13.3	48	98	117
AVR95-23	14.8	53	109	131	14.7	53	109	130	14.6	53	108	129
AVR95-25	16.1	58	119	142	16.1	58	119	142	16.0	57	118	140
AVR95-27	17.5	63	129	154	17.4	63	129	153	17.3	62	128	152
AVR95-29	18.8	68	139	166	18.8	67	139	165	18.6	67	137	164
AVR95-31	20.2	72	149	178	20.1	72	148	177	20.0	72	147	175
AVR95-33	21.5	77	159	190	21.4	77	158	189	21.3	77	157	187

Temperature Effects on Capacity



Depth of Discharge vs. Cycles



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



UL Recognized Component

**"POWERED FOR PERFORMANCE"™**  
**EAST PENN manufacturing co., inc.**

Lyon Station, PA 19536-0147 • Fax: 610-682-4781  
Domestic & International Inquiries Call: 610-682-3263  
www.eastpennunigy.com • e-mail: sales@eastpennunigy.com



Domestic Inquiries Call: 1-800-372-9253  
www.mkbattery.com • e-mail: sales@mkbattery.com

No part of this document may be copied or reproduced, electronically or mechanically, without written permission from the company.