



# 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 Virgin Lead (99.99%) 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:

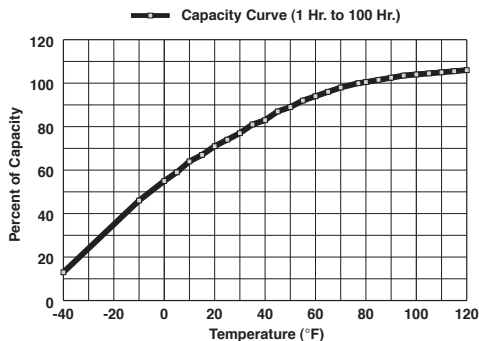
- Non-Interlock modules require front and rear access bolts for mounting, providing easy and safe installation.
- Modules are coated with acid resistant epoxy powder paint.
- Each module has mounting holes for grounding option.
- Standard two-piece base enables anchors to be drilled and installed with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

### FEATURES AND BENEFITS

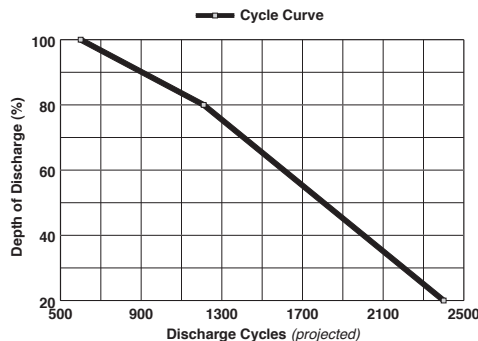
Container and Cover	Impact-Resistant Polypropylene, UL 94 V-0, 28% L.O.I.
Separators	Microporous Glass Mat
Individual Plate Formation	Shipped at 100% Capacity
Cycle Life	2400 cycles @ 20% DOD

CELL TYPE	Ah Ratings at 77°F (25°C) to											
	1.75 v.p.c.				1.81 v.p.c.				1.84 v.p.c.			
	10 HR.	20 HR.	24 HR.	100 HR.	10 HR.	20 HR.	24 HR.	100 HR.	10 HR.	20 HR.	24 HR.	100 HR.
AVR45-5	96.0	107	110	121	93.4	105	108	120	91.4	103	106	118
AVR45-7	144	161	165	181	140	157	162	180	137	154	159	177
AVR45-9	192	214	220	242	187	210	215	239	183	206	212	236
AVR45-11	240	268	275	302	234	262	269	299	229	257	265	294
AVR45-13	288	322	330	363	280	314	323	359	274	309	318	353
AVR45-15	336	375	385	423	327	367	377	419	320	360	371	412
AVR45-17	384	429	440	484	374	419	431	479	366	412	424	471
AVR45-19	432	482	495	544	420	471	485	539	411	463	477	530
AVR45-21	480	536	550	605	467	524	539	599	457	515	530	589
AVR45-23	528	590	605	665	514	576	592	658	503	566	583	648
AVR45-25	576	643	660	726	561	629	646	718	549	618	636	707
AVR45-27	624	697	715	786	607	681	700	778	594	669	689	766
AVR45-29	672	750	770	847	654	733	754	838	640	721	742	824
AVR45-31	720	804	825	907	701	786	808	898	686	772	795	883
AVR45-33	768	858	880	968	747	838	862	958	731	824	848	942
AVR75-5	164	185	192	209	154	165	168	200	148	165	168	196
AVR75-7	246	278	288	314	230	257	264	300	230	257	264	294
AVR75-9	328	371	384	418	312	350	360	400	302	347	360	391
AVR75-11	410	463	480	523	395	443	456	500	379	422	432	489
AVR75-13	487	539	552	627	467	515	528	600	457	512	528	587
AVR75-15	573	635	648	732	543	608	624	699	533	604	624	685
AVR75-17	661	728	744	836	619	700	720	799	609	680	696	783
AVR75-19	737	820	840	941	697	772	792	899	681	769	792	881
AVR75-21	819	913	936	1046	779	865	888	999	763	844	864	978
AVR75-23	901	1006	1032	1150	855	958	984	1099	835	934	960	1076
AVR75-25	983	1099	1128	1255	933	1047	1080	1199	911	1026	1056	1174
AVR75-27	1066	1191	1224	1359	1009	1123	1152	1299	989	1099	1128	1272
AVR75-29	1148	1284	1320	1464	1086	1215	1248	1399	1060	1191	1224	1370
AVR75-31	1230	1377	1416	1568	1168	1308	1344	1499	1142	1284	1320	1468
AVR75-33	1312	1469	1512	1673	1240	1380	1416	1599	1214	1356	1392	1565
AVR95-7	298	339	348	403	294	334	345	399	289	329	341	394
AVR95-9	398	452	464	538	392	445	460	532	386	439	454	526
AVR95-11	497	565	580	672	490	556	575	666	482	549	568	657
AVR95-13	596	678	696	807	589	667	690	799	579	659	681	789
AVR95-15	696	791	812	941	687	778	804	932	675	768	795	920
AVR95-17	795	904	928	1076	785	890	919	1065	772	878	908	1052
AVR95-19	895	1016	1044	1210	883	1001	1034	1198	868	988	1022	1183
AVR95-21	994	1129	1160	1345	981	1112	1149	1331	965	1098	1135	1315
AVR95-23	1093	1242	1276	1479	1079	1223	1264	1464	1061	1207	1249	1446
AVR95-25	1193	1355	1392	1613	1177	1334	1379	1597	1158	1317	1362	1578
AVR95-27	1292	1468	1508	1748	1275	1445	1494	1731	1254	1427	1476	1709
AVR95-29	1392	1581	1624	1882	1373	1557	1609	1864	1351	1537	1590	1841
AVR95-31	1491	1694	1740	2017	1471	1668	1724	1997	1447	1646	1703	1972
AVR95-33	1591	1807	1856	2151	1569	1779	1839	2130	1544	1756	1817	2104
AVR125-33	2104	2367	2423	2930	2073	2336	2392	2895	2043	2301	2357	2853

Temperature Effects on Capacity



Depth of Discharge vs. Cycles



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