



PHOTOVOLTAIC BATTERIES

FLOODED - MONOBLOG

DEKA SOLAR FLOODED MONOBLOC BATTERIES

are designed to offer reliable, low-maintenance power for renewable energy applications where frequent deep cycles are required and minimum maintenance

is desirable.

The **DEKA SOLAR** FLOODED MONOBLOC

include 3 cell (6 volt) and 6 cell (12 volt) photovoltaic batteries.



FEATURES & BENEFITS										
Case and Cover	Heat sealed, lightweight, crack resistant, molded high impact polypropylene.									
Separators	Microporous polyethylene envelopes/separators									
Retainers	20 mil glass mat (DC27- 10 mil).									
Positive and Negative Plate	Antimony flat plate									
Specific Gravity (fully charged)	1.275 @ 25°C (77°F).									
Cell Connections	TP welded (through partition)									
Vents	Individual quarter - turn bayonet vent cap (DC27 - removable pod vents, 3 cells per vent)									
Self discharge	4% per month									
Cycle life for DC25, DC27	200 cycles @ 80% DOD, 900 cycles @ 20% DOD (Number of cycles based on 25 amp discharge to 1.75 vpc @ 29°C (85°F)									









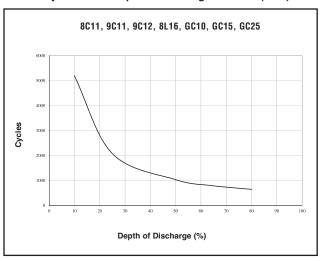
TOVOLTAIC BATTERIES

Photovoltaic Charging Parameters											
Bulk Charge	Max Current (amps)	30% of 20 Hr Rate									
Absorption (Regulation) Charge	Constant Voltage	2.40 - 2.45 vpc									
Float Charge	Constant Voltage	2.30 - 2.35 vpc									
Equalize Charge	Constant Voltage	2.50 - 2.55 vpc									
Temperature Coefficient	0.003 V / °C										

IMPORTANT CHARGING INSTRUCTIONS:

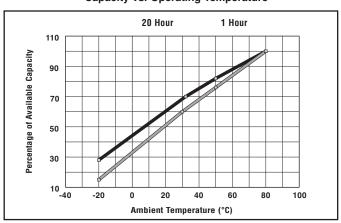
- · Use a good constant potential charger.
- · Do not install battery in a sealed container.
- · Cut-off parameters per charge & equalize intervals are application specific and will vary dependent upon site specific characteristics such as temperature, days of autonomy, array to load ratio, etc.
- · Constant under or overcharging will damage battery and shorten its life.

Cycle Life vs Depth of Discharge at +25°C (77°F)*



The solar battery excels in cycling applications. *Dependent upon proper charging and ambient temperatures.

Capacity vs. Operating Temperature



Capacity vs. Operating Temperatures: Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.

TYPE	NO.	D. FOOTNOTES		PERFORMANCE (Ah) ¹		ELECTROLY	TE VOLUME		APPROX I MA	ATE WEIGHT		MAXIMUM OVERALL DIMENSIONS							
WET	DRY ²	FOUTNOTES	FOUTNOTES	FOUTNOTES	20 HR	100 HR	CIRCUIT CURRENT	OUART	LITER	W	ET	D	RY	LEN	GTH	WI	OTH	HEI	IGHT
	DKI		20 1	1001111	COMMENT	QO/ II.	5.6.	lb	kg	lb	kg	in	mm	in	mm	in	mm		
	6-VOLT SOLAR FLOODED MONOBLOC																		
8C11	8C11D	17,U	235	260	2636	8.0	7.6	66.5	30	48.0	22	11.75	298	7.00	178	11.50	292		
9C11	9C11D	17,U	250	290	2465	7.5	7.1	73.0	33	52.5	24	11.75	298	7.00	178	11.50	292		
8L16	8L16D	17, W	370	420	2339	11.5	10.9	113	51	83.0	38	11.75	298	7.00	178	16.50	419		
GC10	-	U	215	239	2400	7.5	7.1	60.5	27	-	-	10.25	260	7.13	181	10.88	276		
GC15	GC15D	U	230	258	2620	19.0	18.0	63.0	29	44.0	20	10.25	260	7.13	181	10.88	276		
GC25	GC25D	U	235	260	2850	7.3	6.9	68.0	31	-	-	10.25	260	7.13	181	11.13	283		

	12-VOLT SOLAR FLOODED MONOBLOC																
DC24	-	17, U	75	80	2000	5.1	4.8	45.5	21	-	-	10.75	273	6.75	171	9.38	238
DC27	-	17, U	90	95.5	2339	6.0	5.7	53.0	24	-	-	12.50	318	6.75	171	9.38	238
9C12	-	17, U	228	250	2650	12.3	11.6	127	58	-	-	15.50	394	7.00	178	14.25	362

- 1 Ratings after 15 cycles 2- "D" suffix indicated dry option available.

FOOTNOTES:

- 17 Includes Handle
 U Molded-in offset SAE post and 5/16 threaded post
 W Flag terminal with 5/16" diameter hole

Terminal Information









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