

Deka **SOLAR** PHOTOVOLTAIC BATTERIES

FLOODED - MONOBLOC



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
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
Self discharge	4% per month

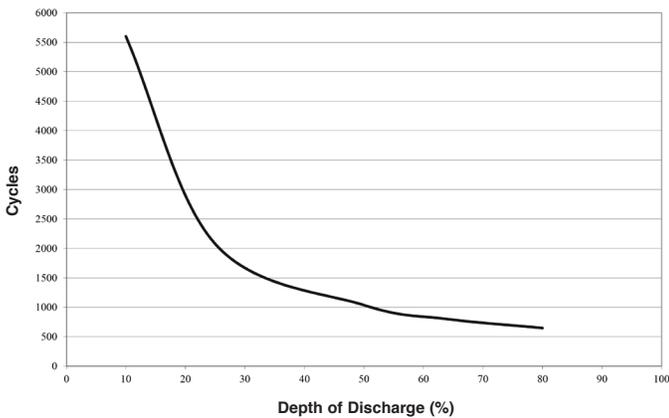
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Photovoltaic Charging Parameters		
Bulk Charge	Max Current (amps)	30% of 20 Hr Rate
Absorption (Regulation) Charge	Constant Voltage	2.40 - 2.45 vpc
Float Charge	Constant Voltage	2.30 - 2.35 vpc
Equalize Charge	Constant Voltage	2.50 - 2.55 vpc
Temperature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

IMPORTANT CHARGING INSTRUCTIONS:

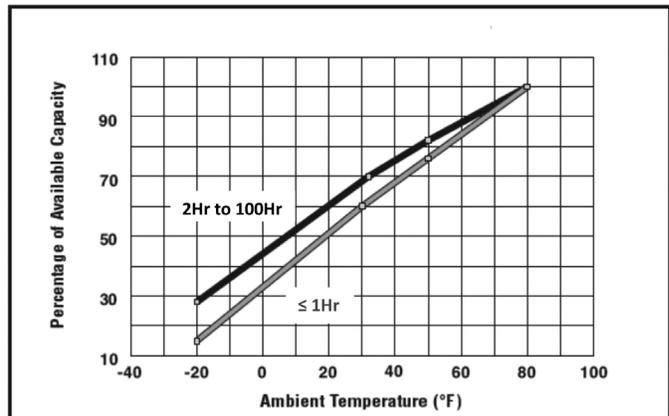
- Use a good constant potential charger.
- Do not install battery in a sealed container.
- Cut-off parameters per charge & equalize intervals are application specific and will vary dependent upon site specific characteristics such as temperature, days of autonomy, array to load ratio, etc.
- Constant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

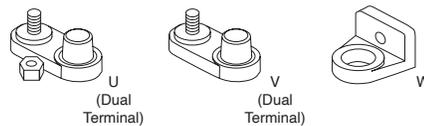
TYPE	FOOTNOTES	PERFORMANCE (Ah) ¹		SHORT CIRCUIT CURRENT	ELECTROLYTE VOLUME		APPROXIMATE WEIGHT		MAXIMUM OVERALL DIMENSIONS					
		20 HR	100 HR		QUART	LITER	lb	kg	LENGTH		WIDTH		HEIGHT	
									in	mm	in	mm	in	mm
6-VOLT SOLAR FLOODED MONOBLOC														
8C11	17,V	235	260	2640	8.0	7.6	67.5	30.6	11.75	298	7.00	178	11.50	292
9C11	17,V	250	290	2900	8.0	7.6	73.0	33.1	11.75	298	7.00	178	11.50	292
8L16	17,W	370	420	2340	11.5	10.9	111	50.3	11.75	298	7.00	178	16.50	419
GC10	U	215	239	2400	6.7	6.3	60.5	27.4	10.25	260	7.13	181	10.88	276
GC15	U	230	258	2620	6.5	6.2	64.0	29.0	10.25	260	7.13	181	10.88	276
GC25	U	235	260	2850	6.0	5.7	68.0	30.8	10.25	260	7.13	181	10.88	276
GC45	U	255	280	3750	6.3	6.0	77.0	34.9	10.25	260	6.81	173	11.88	302
8C6V	17,V	330	365	3200	10.0	9.5	97.5	44.2	11.73	198	7.02	178	14.38	365
12-VOLT SOLAR FLOODED MONOBLOC														
9C12	17,V	228	250	2650	12.9	12.2	127	58	15.50	394	7.00	178	14.25	362

1 - Ratings after 15 cycles

FOOTNOTES:

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

Terminal Information



PROPOSITION 65 WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. **WASH HANDS AFTER HANDLING.**

QUALITY SYSTEM
CERTIFIED
ISO 9001
IATF 16949
ENVIRONMENTAL
SYSTEM CERTIFIED
ISO 14001



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