



PHOTOVOLTAIC BATTERIES

Authorized Agent:



FLOODED - MONOBLOG

DEKA SOLAR FLOODED MONOBLOC BATTERIES

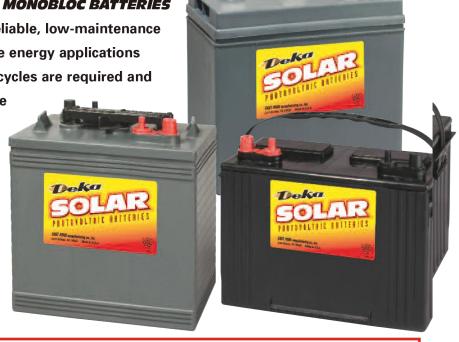
are designed to offer reliable, low-maintenance power for renewable energy applications where frequent deep cycles are required and

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 8C11, 9C11, 8L16, GC15	700 cycles @ 60% DOD, 1150 cycles @ 20% DOD (Number of cycles based on 75 amp discharge to 1.75 vpc @ 32°C (90°F)					
Cycle life for 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)					







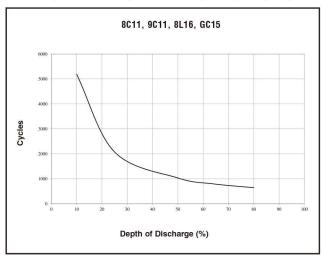


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Photovoltaic Charging Parameters							
Bulk Charge	Max Current (amps)	30% of 20 Hr Rate					
Absorption (Regulation) Charge	Constant Voltage	2.40 - 2.45 vpc					
Float Charge	Constant Voltage	2.30 - 2.35 vpc					
Equalize Charge	Constant Voltage	2.50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

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.

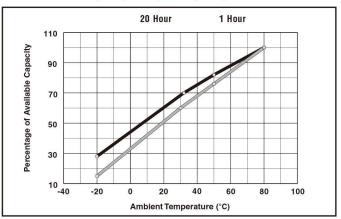
Cycle Life vs Depth of Discharge at +25°C (77°F)*



Cycle Chart applies to types with similiar design characteristics, ex., U1, 22NF, 24, 27, 31.

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.

Terminal Information





TYPE NO.		PERFO		RMANCE SHORT		QUARTS	APPROXIMATE WEIGHT		MAXIMUM OVERALL DIMENSIONS			
		FOOTNOTES	20 100	CIRCUIT	CURDENT (LITERS)	lbs. (kgs.)		inches (mm)				
WET	DRY		AMP HR. AMP HR. Rate rate	(AMPS) OF ACID	WET	DRY	L	W	Н			
	6-VOLT SOLAR FLOODED MONOBLOC											
8C11	8C11D	11,17,19,25,30,34,V	235	260	2636	8 (7.6)	66.5 (30.2)	48 (21.8)	11¾ (298)	7 (178)	11½ (292)	
9C11	9C11D	11,17,19,25,30,34,V	250	290	2465	7½ (7.1)	73 (33.1)	52½ (23.8)	11¾ (298)	7 (178)	11½ (292)	
8L16	8L16D	11,17,19,25,30,34,W	370	420	2339	11½ (10.9)	113 (51.3)	83 (37.6)	11¾ (298)	7 (178)	16½ (419)	
GC15	GC15D	11,30,34,U	230		2620		63 (28.6)	44 (20)	10¼ (260)	7% (181)	10% (276)	
	12-VOLT SOLAR FLOODED MONOBLOC											
DC27	_	11,17,35,U	90	95.5	2339		53 (24.0)		12½ (318)	6% (171)	9% (238)	

FOOTNOTES:

- 11 Low maintenance-low antimony grids
- Includes Handle

- 19 Includes lifting ledges
 25 With individual vent caps
 30 Available dry-add "D" suffix to part number

- Natings after 15 cycles
 Molded-in offset SAE post and vertical 5/16" NEG., 5/16" POS. stainless studs & locking hex nuts
 Molded-in offset SAE post and vertical 5/16" NEG., 5/16" POS. stainless studs
- "L" type terminal w/ 5/16" diameter hole (T882)

All batteries manufactured with gray polypropylene cases and covers except where noted

- IMPORTANT CHARGING INSTRUCTIONS: Do not install in a sealed container. Constant under or overcharging will damage any battery and shorten its life! Use a good constant potential, voltage-regulated charger.

Charge Requirements (25°C)
Charge / Absorption / Equalize – 2.35 to 2.43 v.p.c.
Float – 2.24 to 2.26 v.p.c.

The open circuit voltage of a fully charge battery is 2.13 v.p.c. at 77°F (25°C).

Authorized Agent:



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