



德克®

## GEL MONOBLOC/12V

**The Deka Valve-Regulated Gel Monobloc series offers reliable, versatile, maintenancefree power.**

The thixotropic gel enables these batteries to be completely spillproof providing many available options for installation. The gelled electrolyte gives more protection to the battery plates, and is better suited for deep cycle discharge.

With longer discharge and less charging time, these batteries are ideal for many renewable energy applications.



### FEATURES & BENEFITS

Valve-Regulated	Sealed construction eliminates periodic watering, corrosive acid fumes, and spills
Gelled Electrolyte	Electrolyte will not stratify
Positive and Negative Plate	Lead calcium
Self-Discharge	Less than 2% per month stand loss means little deterioration during transport and storage
Exclusive IPF® Technology	Optimizes power capacity, cell consistency, and long-term reliability
Case/Cover	Flame-Retardant, polypropylene – UL 94 V-0/>28% L.O.I.
Rated Non-Spillable by ICAO, IATA, and DOT	Transports easily and safely by air, no special containers needed

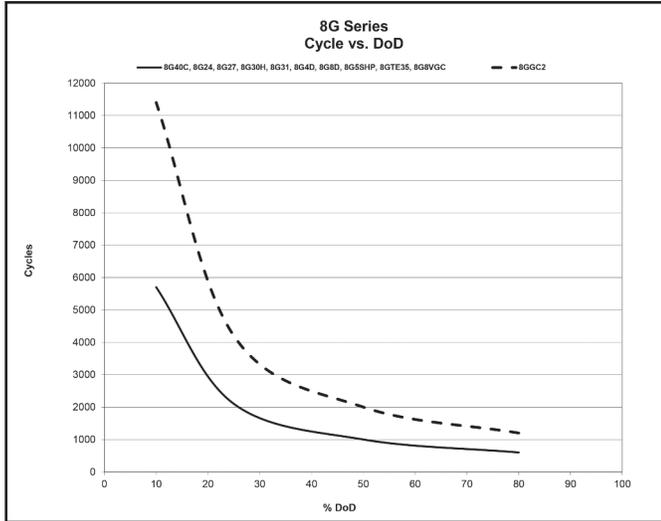
### APPLICATIONS

Renewable Energy • Communications  
 Uninterruptible Power Supply • Emergency Power Supply  
 AC/DC Power Supply • High-Frequency Switch Mode Power Supply

Photovoltaic Charging Parameters		
Bulk Charge	Max Current (amps)	30% of 20 Hr Rate
Absorption (Regulation) Charge	Constant Voltage	2.35 - 2.40 vpc
Float Charge	Constant Voltage	2.25 vpc ± 0.01
Equalize Charge	Constant Voltage	2.40 - 2.43 vpc
Temperature Coefficient	0.003 v / °C	

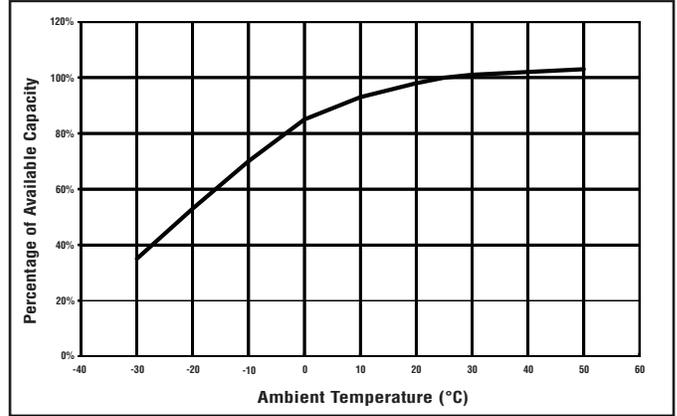
Cut-off parameters per charge & equalize intervals are application specific and will vary dependent upon site specific characteristics such as temperature, days of autonomy, array to load ratio, etc.

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



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.

PART NO.	FOOTNOTES	VOLTS	RATINGS IN AMP-HOURS @25°C (77°F)					SHORT CIRCUIT CURRENT	WEIGHT LB (KG)	DIMENSIONS INCHES(MM)		
			10 HR CAPACITY			20 HR CAPACITY				LENGTH	WIDTH	HEIGHT
			RATINGS 1.80 VPC	PEAK RATINGS** 1.80VPC	PEAK RATINGS** 1.75VPC	RATINGS 1.75VPC	PEAK RATINGS** 1.75VPC					
8G24A	17,C	12	66.0	69.8	71.9	73.6	77.0	2023	51.5 (23)	10.90 (277.0)	6.56 (166.7)	8.24 (209.3)
8G27A	17,C	12	78.7	83.2	84.9	88.0	91.0	2312	62.0 (28)	12.83 (325.8)	6.56 (166.7)	8.25 (209.5)
8G31A	17,C	12	80.9	85.5	95.1	97.6	102.0	2802	68.5 (31)	12.93 (328.5)	6.74 (171.2)	8.67 (220.1)
8G4DA	17,C	12	164.0	173.3	178.6	183.0	193.0	5530	127.5 (58)	20.77 (527.5)	8.43 (214.0)	9.34 (237.2)
8G8DA	17,C	12	204.0	215.6	222.0	225.0	237.0	5915	157.0 (71)	20.87 (530.0)	10.97 (278.7)	9.33 (237.0)
8G5SHPA	17,B	12	105.0	111.0	113.1	115.0	125.0	2342	84.5 (38)	13.58 (345)	6.75 (171)	11.42 (290)
8G4DFA	17,C	12	177.0	N/A	N/A	196.0	N/A	3899	141 (64)	20.77 (528)	8.43 (214)	9.35 (237)

ALL RATINGS ARE AFTER 15 CYCLES AND CONFORM TO B.C.I. SPECIFICATIONS.

**IMPORTANT CHARGING INSTRUCTIONS:** WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. 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. The **open circuit voltage** of a fully charged 12-volt battery is 12.8V at 77°F (25°C).

Batteries manufactured in polypropylene cases and covers.  
Batteries manufactured with gray case / gray cover unless noted.

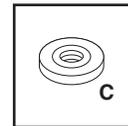
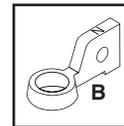
\*\*Peak Rating - Maximum amount of amp-hours a battery can deliver at a specified rate

#### Footnotes:

- 17 - Includes handle
- 38 - "Non-Spillable" defined by DOT(Department of Transportation) definitions
- 39 - "Non-Spillable" defined by ICAO (International Commercial Airline Organization) and IATA (International Airline Transport Association) definitions

#### Terminal Information

- B** Flag Terminal w/ 3/8" diameter hole
- C** 1/4-20 Epoxy Threaded Insert



www.dekabatteries.cn

QUALITY SYSTEM CERTIFIED  
**ISO 9001**  
ENVIRONMENTAL SYSTEM CERTIFIED  
**ISO 14001**  
OCCUPATIONAL HEALTH AND SAFETY CERTIFIED  
**OHSAS 18001**  
CHINA

**UL**  
UL Recognized Component



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E.P.M. Form No. 2539 7/20

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