

VRLA AGM | Non-Spillable | Maintenance-Free

Power. Sheet.

12CRV8DAGM Deep Cycle





Crown Battery Manufacturing's team of product and application experts welcome the opportunity to discuss your technical requirements during the design and specification stage.

To access this support, please contact:

Crown Battery Manufacturing's Product Support Department

+1.419.334.7181 / Fax +1.419.334.7124 commercial@crownbattery.com

TERMINAL STYLE



PHYSICAL SPECIFICATIONS

BCI Group	Model Description	Nominal Voltage	Len	gth	Wie	dth	Cont Hei	ainer ght		ninal ght	Wei	ight	Cover & Container	Case to Cover Seal Method
Size			in	mm	in	mm	in	mm	in	mm	lbs	kgs	Material	Seal Method
8D	12CRV8D	12	20.52	521	10.59	269	7.99	203	9.02	229	162	73.5	ABS	Heat Seal

ELECTRICAL SPECIFICATIONS

	Ampere Hour Capacity (Ah)					Discharg	ge Capacity	Minutes		KWH (kWh)	Int Res.	Short Circuit Current	
	CCA CA 100 Hr 20 Hr 5 Hr			75A	25A	20A	15A	5A	100 Hr	80°F / 27°C	Amperes		
Γ	1000	1250	292	240	206	171	500	695	938	1998	3.4	2.3	2400

AGM BATTERY STATE OF CHARGE MEASUREMENT

State of Charge Percentage	100%	75 %	50%	25%	0%
Open Circuit Voltage - Cell	2.14	2.09	2.04	1.99	1.94
Open Circuit Voltage - Battery	12.84	12.54	12.24	11.94	11.64

APPLICATION NOTES

Operating Temperature Range	Self Discharge	Terminal & Torque Specifications	Best Practices		
Maximum Limit -4°F to 120°F (-20°C to 49°C) with proper temperature		SAE / Automotive Terminal: 50 to 70 in-lbs / 6 to 8 Nm	Safety is Your Responsibility! Keep sparks, flames and cigarettes away from batteries at all times. Maintain good ventilation when working on or charging		
compensation controls. Lead acid batteries are temperature sensitive: refer to the temperature / capacity projection		Stainless Threaded Terminal: 100 to 120 in-lbs / 11 to 14 Nm	batteries. Do not install or charge batteries in a sealed compartment. Keep batteries and terminal connections clean, dry and free of dirt and corrosion. Do not tamper with vent structures.		
chart to identify available capacity at the application operating temperature.	on storage temperature.	Fastener Type: M8 – 1.25 S/S Serrated-Face Hex Flange Nut	Optimize the life of your batteries by limiting duty cycle depth of discharge to 75% or less.		
Application Note: Maintain a state of charge greater than 60% when operating batteries at temperatures below 32°F (0°C).	Freshening charge recommended for inventory at 75% SOC voltage.	Battery terminal connections should be secured and tight at all times. Replace torn or damaged cabling or connectors.	Charging service must be performed with equipment configured to support the charging recommendations herein. Opportunity charging service can be performed when batteries are no more than 50% discharged. Batteries must be fully recharged after the termination of duty cycle usage. Chronic under-charge or over-charge will shorten battery life.		

12CRV8D AGM Deep Cycle Battery

CYCLIC CHARGING

Constant Voltage Charging								
CYCLE CHARGE:	14.40 - 14.82 V	Temperature Correction:	+/- 3 mV / °C					
FLOAT CHARGE:	13.20 V	Recommended Charge Current:	25 Amperes					
		Maximum Charge Current:	50 Amperes					

Cyclic applications exceeding 50% depth-of-discharge may require different charger voltage set points. Contact Crown Battery to discuss your application requirements.

DEPTH OF DISCHARGE EFFECT ON CYCLE LIFE

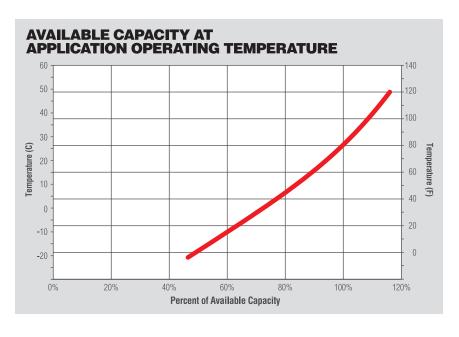
75% DOD	End-Cycle	50% DOD	End-Cycle	25% DOD	End-Cycle
Cycles	Voltage	Cycles	Voltage	Cycles	Voltage
480	5.97	1000	6.12	2000	

The battery life references presented above are estimations based upon life cycle testing conducted at Crown Battery Manufacturing's Test Center in Fremont, Ohio USA. The data references are nominal and should not be construed as maximum or minimum values for specifications or final design. Data for this product type may vary from that shown herein, and Crown Battery makes no warranties based upon the data shown above.

Proper charging of renewable power batteries is essential to optimize the performance and life of the batteries. To ensure dependability and life batteries should be charged after each discharge period. Regular monitoring of battery voltage condition is recommended to verify system recharging performance. Refer to the following table for additional charge control setting information.

RENEWABLE POWER CHARGING

Voltage	MDO	System Voltage					
Setting	VPC	12 Volts	12 Volts 24 Volts				
Bulk	2.40 - 2.45	14.40 - 14.70	28.80 - 29.40	57.60 - 58.80			
Absorption	2.47	14.82	29.64	59.28			
Float	2.20	13.20	26.40	52.80			

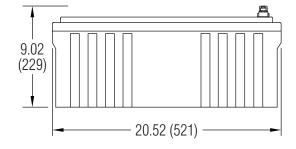


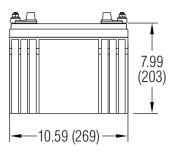
Effect of Ambient Temperature on Battery Life

Typical battery life is based upon a baseline operating temperature of 80°F / 27°C. Temperature increases of 15°F / 10°C over the baseline will cause the battery's rate of internal chemical reactions to double — something that will reduce battery life due to the accelerated deterioration of internal components.

Please contact Crown Battery to discuss any minimal requirements for battery life when operating batteries in temperatures greater than 80°F / 27°C.









1445 Majestic Drive | P.O. Box 990 Fremont, OH 43420-0990 USA +1.419.334.7181 | Fax +1.419.334.7124 www.crownbattery.com commercial@crownbattery.com

The data shown are nominal and should not be construed as maximum or minimum values for specification or final design. Data for this product type may vary from that shown herein.

Visit our website at www.crownbattery.com