

# D230000D

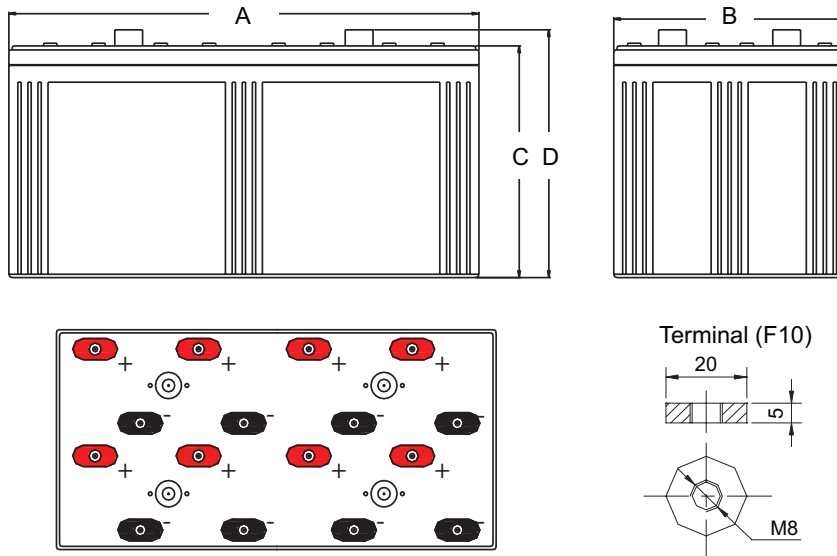
DATA SHEET



## Cyclic AGM Battery Block

Discover® AGM Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free Valve Regulated Lead Acid (VRLA) construction make Discover® Standard AGM Series Batteries the definitive choice for mobility and Home Medical Equipment (HME), solar and renewable energy, electronics and security, marine and RV, and utility applications.

### Mechanical Drawings



### Benefits and Features

- Tank formed lead-fin-calcium plates deliver consistent dependable performance and promote long life
- Maintenance-free technology
- 99% gas recombination for extended life in float applications
- Multiple terminal, configuration options and carrying handles available with most models
- Classified as a non-spillable battery and is not restricted for transportation by:
  - Air (IATA/ICAO provision 67)
  - Surface (DOT-CFR-HMR49)
  - Water (per IMDG amendment 27)
- Flame retardant ABS case and cover with UL94 V0 rating available
- UL924 recognized flame arresting low pressure safety vents
- 98% recyclable

### Mechanical Specifications

Length (A)	27.95 in	710 mm
Width (B)	13.8 in	350 mm
Height (C)	13.6 in	345 mm
Total Height (D)	15.04 in	382 mm
Weight	418 lbs	190 kgs
Terminal (Opt'l)	F10	
Cells	1	
Electrolyte	AGM	

### Electrical Specifications

Voltage	2 V
Internal Resistance	0.12 mΩ
Short Circuit 20°C (68°F)	-
20 HR	3225 Ah
10 HR	3000 Ah
5 HR	2670 Ah
1 HR	1850 Ah
15 MIN	-
Charge Temperature	-10°C (14°F) to 50°C (122°F)
Discharge Temperature	-20°C (-4°F) to 50°C (122°F)
Maximum Discharge*	-40°C (-40°F) to 60°C (140°F)

### Certifications and Standards

Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards, including:

- IEC60896-21/22
- BS EN 60254-1:2005
- AS/NZS 4029.2:2000 BS EN 60254-1:2005 (MOD)

Discover® and its facilities and products are certified to multiple standards:

- ISO, UL, QS, and TUV standards
- EITS Germany
- Euro Bat classification for Environmental Stewardship Standards

### Discharge Constant Current (Amperes at 25°C/77°F)

End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60V	-	5140	4020	2980	1850	825	579	319	-
1.65V	-	4870	3825	2850	1793	800	561	315	-
1.70V	-	4595	2625	2710	1735	770	549	310	-
1.75V	-	4305	3420	2570	1675	745	534	305	-
1.80V	-	4020	3215	2425	1630	710	524	300	-

### Discharge Constant Power (Watts at 25°C/ 77°F)

End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR
1.60V	-	7748	6050	4484	3477	2976	2040	1423	922
1.65V	-	7344	5759	4286	3338	2895	2017	1386	906
1.70V	-	6926	5459	4088	3199	2814	1942	1346	888
1.75V	-	6497	5154	3890	3060	2733	1859	1302	869
1.80V	-	6062	4845	3692	2921	2652	1770	1268	826



### Contact Us



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### Charge and Discharge

Max Charge / Discharge Currents	Peak (5 seconds)	Peak (10 seconds)	Max Continuous
Charge	1c20	0.75c20	0.25c20
Discharge	15c20	10c20	0.5c20

**Float (Stand-By) Use:** Hold a constant voltage of 2.25vpc to 2.30vpc continuously.

When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Cyclic Use:** Limit initial currents to 0.25C20 amps. Charge until battery voltage reaches 2.40 to 2.45vpc. Hold at 2.40 to 2.45vpc until current drops to under 0.01C20 amps. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**Temperature Coefficient:** Adjust charging voltage to +/- 0.005vpc (C, 0.003vpc/F) from 25°C (77°F).

### Discharge Characteristics (20°C/68°F)



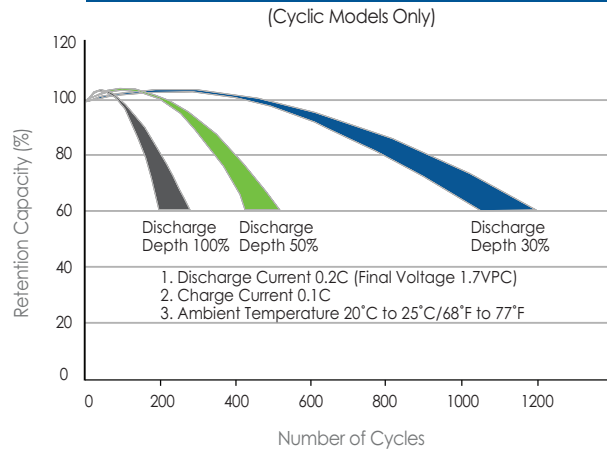
### Self-Discharge Characteristics



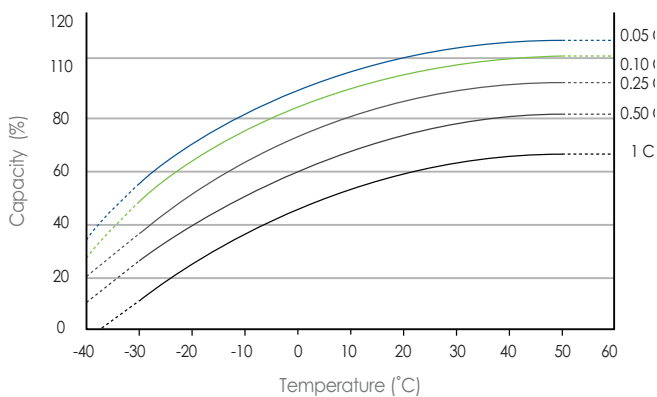
### Life Characteristics in Stand-By Use



### Life Characteristics in Cyclic Use



### Temperature Effects on Capacity



### Temperature Effects on Float Life

