

# D12270

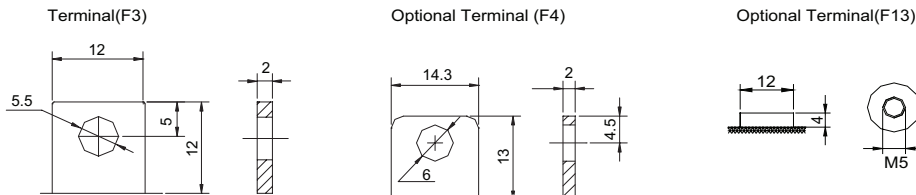
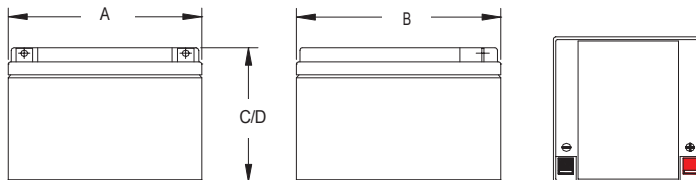
DATA SHEET



## Float 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 broadband and CableTV (CATV), Uninterruptible Power Supplies (UPS), telecommunications, and electronics and security applications.

### Mechanical Drawings



### Benefits and Features

- Tank formed lead-tin-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
- Up to 12 year design life in float service

### Mechanical Specifications

Length (A)	6.54 in	166 mm
Width (B)	6.93 in	175 mm
Height (C)	4.92 in	125 mm
Total Height (D)	4.92 in	125 mm
Weight	17.05 lbs	7.75 kgs
Terminal (Opt'l)	F3 (F4) (F13)	
Cells	6	
Electrolyte	AGM	

**TERMINAL TORQUE:** Please refer to our document, located in the Resources webpage ([www.discover-energy.com/resources/](http://www.discover-energy.com/resources/)).

**CAUTION:** Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum temperatures.

### Electrical Specifications

Voltage	12 V
Internal Resistance	12 mΩ
Short Circuit 20°C (68°F)	-
20 HR	26.0 Ah
10 HR	24.0 Ah
5 HR	22.3 Ah
1 HR	15.8 Ah
15 MIN	-
Charge Temperatures	-10°C (14°F) to 50°C (122°F)
Discharge Temperatures	-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	102	70.0	50.0	29.5	15.8	7.00	4.73	2.53	1.34
1.65V	96.5	66.3	47.7	28.2	15.6	6.84	4.64	2.49	1.34
1.70V	91.0	62.5	45.3	26.9	15.4	6.70	4.55	2.45	1.33
1.75V	85.4	58.5	43.0	26.4	15.1	6.55	4.46	2.40	1.32
1.80V	79.8	54.3	40.8	25.0	14.8	6.40	4.35	2.35	1.30

### 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	194	127	94.5	57.8	42.0	33.3	20.6	14.1	8.97
1.65V	182	120	89.4	54.9	40.1	31.8	20.0	13.8	8.81
1.70V	169	112	84.2	51.9	38.1	30.3	19.2	13.1	8.63
1.75V	159	105	79.0	48.9	36.0	28.9	18.5	12.6	8.43
1.80V	146	97.3	73.8	45.9	33.9	27.3	17.7	12.0	8.22

### 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)



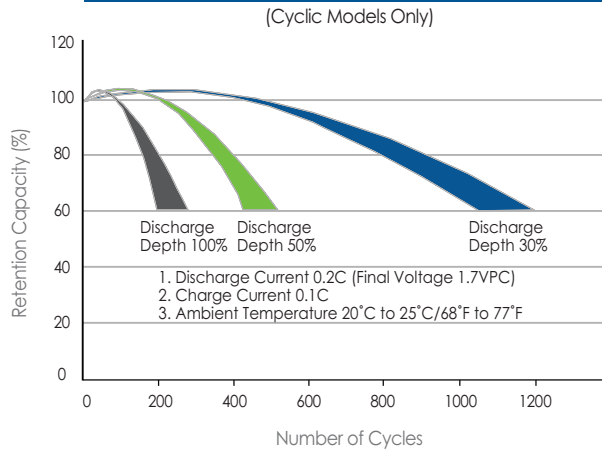
### Self-Discharge Characteristics



### Life Characteristics in Stand-By Use



### Life Characteristics in Cyclic Use



### Temperature Effects on Capacity



### Temperature Effects on Float Life

