

# D12900-350W

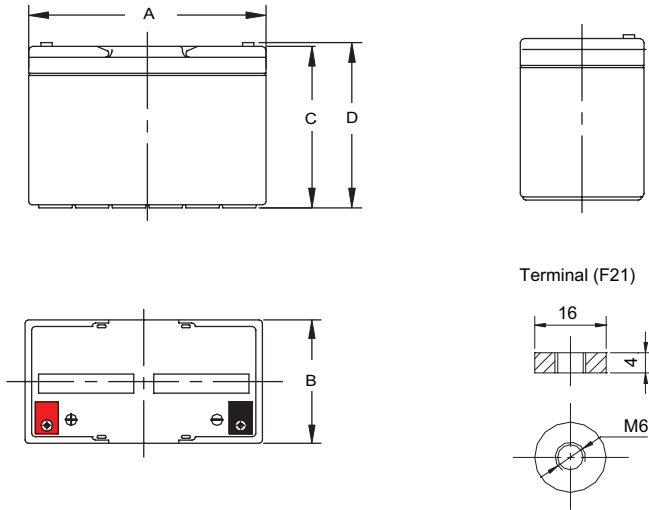
DATA SHEET



## 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)	12.1 in	306 mm
Width (B)	6.6 in	169 mm
Height (C)	8.1 in	208 mm
Total Height (D)	8.3 in	212 mm
Weight	62.7 lbs	28.5 kgs
Terminal (Opt'l)	F21	
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	4.5 mΩ
Short Circuit 20°C (68°F)	-
20 HR	94 Ah
10 HR	90 Ah
5 HR	80 Ah
1 HR	67 Ah
15 MIN	49 Ah
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
- ETTS 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	-	259	207	125	67	30.1	17.4	9.4	4.90
1.65V	-	250	200	122	65.5	29.2	17.0	9.4	4.90
1.67V	-	-	-	-	-	-	-	-	-
1.70V	-	240	192	118	64	29.0	16.5	9.3	4.85
1.75V	-	230	184	114	62.5	27.8	16.0	9.2	4.80
1.80V	-	218	174	109	60.5	26.5	15.4	9.0	4.70

### 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	-	464	374	229	166	130	70.5	51.2	34.2
1.65V	-	448	361	223	162	127	68.4	50.0	33.4
1.67V	-	440	355	220	160	125	67.5	49.5	33.0
1.70V	-	430	348	216.5	157.5	124	66.2	48.8	32.5
1.75V	-	412	334	210	152	121	64.0	47.6	31.6
1.80V	-	393	320	203	146	117	61.8	46.3	30.7

### 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

