D12400D

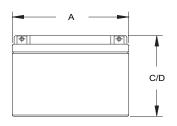
DATA SHEET

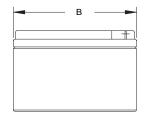


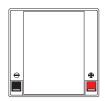
Cyclic AGM Battery Block

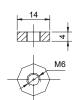
Discover® AGM Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free Valve Regulated Lead Acid (VRLA) construction make Discover® Standard AGM Series Batteries the definitive choice for mobility and Home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

Mechanical Drawings



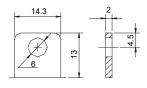






Terminal(F11)





| Mechanical Specifications | | | | |
|---------------------------|---------------|--------------|--|--|
| Length (A) | 7.76 in | 197 mm | | |
| Width (B) | 6.5 in 165 mm | | | |
| Height (C) | 6.69 in | 69 in 170 mm | | |
| Total Height (D) | 6.69 in | 170 mm | | |
| Weight | 27.9 lbs | 12.7 kgs | | |
| Terminal (Opt'I) | F11 (F4) | | | |
| Cells | 6 | | | |
| Electrolyte | AGM | | | |

TERMINAL TORQUE: Please refer to our document, located in the Resources webpage (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 | 10 mΩ | |
| Short Circuit 20°C (68°F) | - | |
| 20 HR | 43 Ah | |
| 10 HR | 40 Ah | |
| 5 HR | 34 Ah | |
| 1 HR | 25 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) | |

Discharge Constant Current (Amperes at 25°C/77°F) 5 MIN **10 MIN 15 MIN** 20 HR End Point V/C **30 MIN** 1 HR 3 HR 5 HR 10 HR 92.0 1.60V 130 72.0 42.0 25.0 10.2 7.00 4.19 2.23 1.65V 123 87.4 69.3 40.7 24.2 10.1 6.90 4.14 2.22 1.70V 118 23.3 10.0 6.85 82.7 66.5 39.1 4.10 2.20 6.80 1.75V 109 78 1 63.2 37.2 22 1 9.85 4 0.5 2.18 1.80V 100 71.0 58.0 34.9 20.8 9.71 6.70 3.94 2.15 Discharge Constant Power (Watts at 25°C/77°F) 10 MIN 15 MIN End Point V/C 5 MIN **30 MIN 45 MIN** 1 HR 2 HR 3 HR 5 HR 232 155 113 69.4 54.2 44.5 28.5 19.3 13.7 1.60V 1.65V 218 146 107 65.9 51.7 42.6 27.6 18.8 13.5 1.70V 203 137 101 62.3 49 1 40.7 26.7 18.3 13.2 1.75V 17.7 189 128 94.0 58.7 46.5 38.7 25.6 12.9 1.80V 175 119 88 1 55.1 43.8 36.6 24.5 17.1 12.6

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

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















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 | |

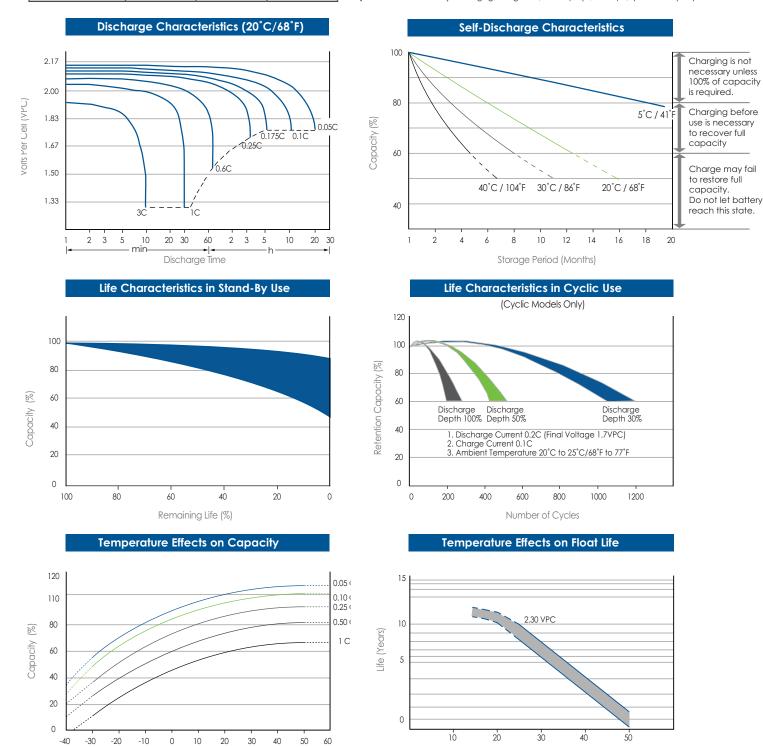
Temperature (°C)

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

When held at this voltage, the battery will seeks 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).



Temperature (°C)