

EXCELLENT CYCLING ABILITY

FOR

SOLAR / PHOTOVOLTAIC

WIND GENERATION

INVERTER / MOBILITY

TELECOMMUNICATION

APPLICATIONS



DP-12100

SEALED VRLA MONOBLOC AGM BATTERIES
VALVE REGULATED LEAD ACID BATTERY
FOR CYCLING APPLICATIONS

12V 100AH @ 20 HR RATE to 1.75VPC

12V 114AH @ 100 HR RATE to 1.75VPC

LONG DURATION

Innovative Features

- ☑ Thick positive plate design and high Tin alloy~12 years design life @ 20°C(68°F).
- ☑ UL Recognized component.
- ☑ Valve regulated lead acid battery (VRLA).
- ☑ High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- ☑ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- ☑ Operates at a low internal pressure.
- ☑ Heavy duty insert copper terminals for ease of assembly, reduced maintenance and increased safety.
- ☑ Advanced lead tin calcium alloy, reduces grid corrosion and promotes long battery life.
- ☑ Standard: Reinforced ABS (UL 94HB) container and cover.
Optional: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.
- ☑ Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.
- ☑ Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L. 924.
- ☑ Multicell design for ease of installation and maintenance.
- ☑ Horizontal or vertical operation.

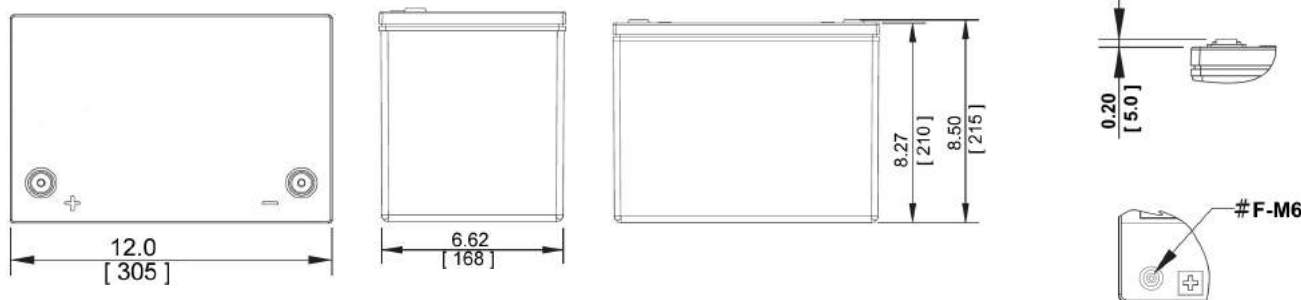
12 VOLTS - 100 AMPERE HOUR @ 20 HOUR RATE

AH Capacity to 1.75VPC @ 20°C (68°F)

| End Point Volts/Cell | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 12hr | 20hr | 24hr | 100hr |
|-------------------------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1.75 | 63.9 | 68.4 | 73.2 | 76.4 | 79.0 | 86.4 | 90.4 | 92.1 | 100 | 102 | 114 |

Deep Cycle AGM Range

EverExceed®
power your applications



Length: 305mm Width: 168mm Height: 215mm

| Electrical Specifications | | | | | | |
|---------------------------|------------------|----------------|-------------|---------------------------|-----------------------|---------------------|
| Cells Per Unit | Voltage Per Unit | Weight | Electrolyte | Maximum Discharge Current | Short Circuit Current | Ohms Imped 60 Hz(Ω) |
| 6 | 12.84 | 66.1lbs 30.0kg | SG = 1.300 | 635 Amps | 2650 Amps | 0.0040 |

| | |
|---|---|
| Capacity | 100 Ah @ 20 hr. rate to 1.75 volts per cell @ 20°C (68°F). 114 Ah @ 100 hr. rate to 1.75 volts per cell @ 20°C (68°F). |
| Applicable Operating Temperature Range | -40°C (-40°F) to +70°C (158°F). |
| Ideal Operating Temperature Range | +20°C (+68°F) to +30°C (+86°F). |
| Floating Charging Voltage | 13.5 to 13.8 VDC/unit Average at 25°C (77°F). |
| Recommended Maximum Charging Current Limit | 0.25C20 amperes (25.0 amperes @ 100% depth of discharge) @ 20 hr. rate to 1.75VPC. |
| Equalization and Cycle Service Charging Voltage | 14.1 to 14.4 VDC/unit Average at 25°C (77°F). |
| Maximum AC Ripple (Charger) | 0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P). Maximum current allowed = 5.00 amperes RMS (C/20) to 1.75VPC. |
| Self Discharge | EverExceed Deep Cycle AGM Range batteries may be stored for up to 12 months at 20°C (68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Accessories | Inter unit connectors racks and cabinet systems are available. |
| Terminal: Inserted | Threaded copper alloy insert terminal. |
| Terminal Hardware Initial Torque: Inserted Terminal | 9 N-m |

| Constant Power Discharging Ratings - Watts Per Cell @ 20°C (68°F) | | | | | | | | | | | |
|---|-------|------|------|------|------|------|------|------|------|------|-------|
| End Point Volts/Cell | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 12hr | 20hr | 24hr | 100hr |
| 1.85 | 79.2 | 61.1 | 43.9 | 34.5 | 28.9 | 20.0 | 16.7 | 14.2 | 9.30 | 7.82 | 2.12 |
| 1.80 | 83.3 | 64.0 | 46.2 | 36.4 | 30.2 | 20.9 | 17.4 | 14.8 | 9.75 | 8.24 | 2.22 |
| 1.75 | 86.1 | 65.7 | 47.1 | 37.1 | 30.9 | 21.2 | 17.6 | 15.2 | 9.91 | 8.36 | 2.28 |

| Constant Current Discharging Ratings - Amperes Per Cell @ 20°C (68°F) | | | | | | | | | | | |
|---|-------|------|------|------|------|------|------|------|------|------|-------|
| End Point Volts/Cell | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 12hr | 20hr | 24hr | 100hr |
| 1.85 | 39.2 | 31.5 | 22.4 | 17.6 | 14.6 | 9.95 | 8.25 | 7.16 | 4.65 | 3.95 | 1.06 |
| 1.80 | 41.9 | 33.4 | 23.8 | 18.7 | 15.5 | 10.5 | 8.77 | 7.46 | 4.87 | 4.13 | 1.11 |
| 1.75 | 42.6 | 34.2 | 24.4 | 19.1 | 15.8 | 10.8 | 9.04 | 7.68 | 5.00 | 4.24 | 1.14 |

Note: Batteries to be mounted with 0.39 in (1.00 cm) spacing minimum and free air ventilation.
Specifications subject to change without notification.