وشيان لأنظم قالطاة قالشمسية



Deep Cycle MAX Range VRLA





DEEP CYCLE MAX RANGE VRLA 20Ah to 280Ah @ C20

SEALED VRLA MONOBLOC **AGM BATTERIES**

The extremely powerful, compact AGM VRLA batteries of EverExceed Deep Cycle MAX Range which is designed to cope with the most extreme temperatures and environments, is an ideal energy Source for durability in Photovoltaic, RV, Mobility, Wind and Telecom applications, the EverExceed top terminal Deep Cycle MAX Range provides high performance and reliability in long duration cycling applications. Our development team combines the market demand with design optimization, precision component selection and state-of-the-art manufacturing process to produce the most cost effective battery solution for today applications.

Applicable Operating temperature range: -40°C (-40°F) to +80°C (+176°F)

Ideal Operating temperature range: +15°C (+59°F) to + 35°C (+95°F)

Storage time from a fully charged condition: 12 months at 20°C~25°C / 68°F~77°F.

For each 9°C / 15°F rise, reduce the storage time by half.

Applications

Deep Cycle MAX range batteries Incorporate EverExceed advanced VRLA technology designed for long life and high performance in:

Solar / Photovoltaic Water Pumping Wind Generation Communications Power Wheelchair Cathodic Protection

Microwave Signaling Broadband Golf Cart

Compliant Standards

IEC 60896-21/22-2004 IEC 61/27-2005 DIN 43539-T5 YD/T 1360-2005 BS 6290 PART 4 **UL Compliant**

Innovative Features

- Thick optimized positive plate design for maximum service life - 12 years @ 35°C(95°F), 15 years @ 20°(68°F);
- Nano-Carbon enhanced for improved durability.
- UL Recognized component
- Advanced Corrosion-resistant lead high-tin low-calcium alloy, ensure the best performance for continuous operation up to 35°C:
- Extreme temperature High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher density & capacity and uniform grid protection.
- Advanced deep cycle high tin lead alloy, reduces grid corrosion and promotes long battery life.
- 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.
- Anti-high-temperature casing materials.

Standard: Reinforced anti-high-temperature ABS (UL

94HB) container and cover:

Optional: Flame-retardant U.L.94 V-0;

- One-way relief valve, Explosion Resistant.
- Double floating life more than traditional VRLA battery
- Better performance for high / low outdoor applications, extended service life for non-temperature controlled outdoor enclosures

Designed in Quality Manufacturing

Quality manufacturing processes for the Deep Cycle MAX Range batteries incorporate the industry most advanced technologies including: an automated sealing detection system, a computer controlled "fill by weight" acid filler, and a temperature controlled water bath formation process. Each and every unit is capacity tested.

No transport restrictions

Surface transport. Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.

Marine transport. Classified as non-hazardous material as per IMDG amendment 27

Air transport. Complies with IATA/ICAO, Special provision A67









مبيعات صنعاء / الحديدة 776222922

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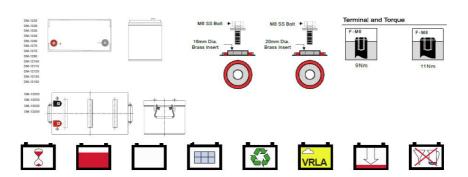


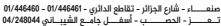
Deep Cycle MAX Range VRLA

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Deep Cycle MAX Range Electrical Specifications & Dimensions

| Battery Model DM-1220 | Nom. Voltage (V) | Capacity C/20 1.75VPC @ 20°C | Capacity C/100 1.75VPC @ 20°C | Short Circuit Amps | Internal Resistance Milli-ohms | Terminal Type | Battery Weight (kg/lb) | | Outline Dimensions (mm/inch) | | | | | |
|------------------------|------------------------|---------------------------------------|--|--------------------------|--------------------------------------|------------------|---------------------------|------|------------------------------|------|-------|------|--------|------|
| | | | | | | | | | Length | | Width | | Height | |
| | | | | | | | 6.2 | 13.6 | 181 | 7.13 | 76 | 2.99 | 167 | 6.57 |
| DM-1228 | 12 | 28 | 31 | 890 | 13.5 | F-M5 | 8.4 | 18.5 | 165 | 6.54 | 175 | 6.89 | 126 | 4.96 |
| DM-1235 | 12 | 35 | 38 | 1270 | 11.0 | F-M6 | 10.5 | 23.1 | 195 | 7.68 | 130 | 5.12 | 180 | 7.07 |
| DM-1245 | 12 | 45 | 50 | 1700 | 9.0 | F-M6 | 14.5 | 32.0 | 197 | 7.76 | 165 | 6.5 | 172 | 6.78 |
| DM-1260 | 12 | 60 | 66 | 1900 | 7.4 | F-M6 | 18.5 | 40.7 | 228 | 9.00 | 137 | 5.40 | 215 | 8.41 |
| DM-1270 | 12 | 70 | 76 | 2000 | 6.5 | F-M6 | 21.5 | 47.3 | 350 | 13.8 | 167 | 6.56 | 180 | 7.03 |
| DM-1275 | 12 | 75 | 83 | 2400 | 8.5 | F-M8 | 22.5 | 49.5 | 259 | 10.2 | 168 | 8.62 | 215 | 8.48 |
| DM-1290 | 12 | 90 | 100 | 2600 | 5.2 | F-M6 | 24 | 52.8 | 259 | 10.2 | 168 | 6.62 | 215 | 8.46 |
| DM-12100 | 12 | 100 | 110 | 2800 | 5.0 | F-M6 | 28 | 61.6 | 305 | 12 | 168 | 6.62 | 210 | 8.27 |
| DM-12110 | 12 | 110 | 120 | 3000 | 4.8 | F-M8 | 31 | 68.2 | 332 | 13.1 | 174 | 6.86 | 215 | 8.5 |
| DM-12120 | 12 | 120 | 132 | 3400 | 4.6 | F-M8 | 32.5 | 71.5 | 332 | 13.1 | 174 | 6.86 | 215 | 8.5 |
| DM-12135 | 12 | 135 | 148 | 3700 | 4.0 | F-M8 | 36.5 | 80.3 | 408 | 16.1 | 175 | 6.9 | 238 | 9.38 |
| DM-12150 | 12 | 150 | 165 | 4100 | 3.5 | F-M8 | 42 | 92.4 | 340 | 13.4 | 173 | 6.81 | 288 | 11.3 |
| DM-12165 | 12 | 165 | 180 | 4300 | 3.4 | F-M8 | 45 | 99 | 483 | 19.0 | 170 | 6.70 | 240 | 9.45 |
| DM-12200 | 12 | 200 | 220 | 4400 | 3.0 | F-M8 | 56.5 | 124 | 520 | 20.5 | 238 | 9.37 | 220 | 8.67 |
| DM-12220 | 12 | 220 | 250 | 4600 | 2.8 | F-M8 | 62 | 136 | 520 | 20.5 | 238 | 9.37 | 220 | 8.67 |
| DM-12250 | 12 | 250 | 280 | 5200 | 2.6 | F-M8 | 65 | 143 | 520 | 20.5 | 269 | 10.6 | 210 | 8.27 |
| DM-12280 | 12 | 280 | 300 | 5700 | 2.5 | F-M8 | 75 | 165 | 520 | 20.5 | 269 | 10.6 | 225 | 8.86 |







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CONSTRUCTION - The EverExceed deep cycle MAX battery construction is as shown in the diagram below. The positive and negative grids are cast from a high tin lead alloy to reduce grid growth and corrosion. The active material is manufactured from high purity lead (99.9999%) to minimize the negative effects of impurities.

The EverExceed deep cycle MAX battery separator adopted is top quality mat of random woven acid resistant glass fibres, which acts as sponge - soaking up and immobilizing the electrolyte whilst maintaining good acid to plate contact and availability during discharge. "U wrapping" is employed to eliminate the risk of short circuits due to mossing and debris at the bottom of the cell.

The purpose of the separator is to maintain a constant distance between the positive and negative plates, thus removing the possibility of short circuits whilst allowing the active material to fully react with the electrolyte. The random weaving also results in an open structure, which offers minimal resistance to the flow of electrolyte during filling.



- OPlates: High Tin Pb alloy, optimized for high corrosion resistance and deep cycle use.
- ②Separator: Highly porous glass micro-fibre separator, optimized for low internal resistance, for maximum Absorption of the electrolyte and for electrical separation.
- Standard housing: Reinforced special high temperature resistant ABS container and cover adopted.
- **Terminals:** Silver plated Copper female insert for easy and safe assembly and maintenance free connection with excellent conductivity.
- GValves: Release gas in case of excess pressure and protects the cell against atmosphere.

ELECTROLYTE FILLING - Special production and stringent QC systems are utilized to ensure the electrolyte saturation is optimized for each cell.

Measured high vacuum acid fill, reduces electrical variability between cells. The battery design and construction negates the need for electrolyte addition and the battery remains maintenance free throughout its design life.

SAFETY RELEASE VALVE - The battery will operate above atmospheric pressure under normal operating conditions, however the maximum pressure is governed by the safety one-way release valve. Open is activated by pressures in excess of approx. 2 PSI (14 Kpa), resealing at approx 1.2 PSI (8.4Kpa).

GAS RECOMBINATION - The gasses generated during normal operation of the battery are internally recombined. In fact more than 99% of the gas achieves recombination.

TERMINAL CONSTRUCTION - The contact quality between the insert terminal and the lead post is of vital importance during short duration / high Amp discharges. Elevated terminal temperatures are the result of poor contact, eventually causing seal degradation and electrolyte leaks.

EverExceed's design and assembly technique for terminal casting ensures trouble free operation for the design life of the battery.

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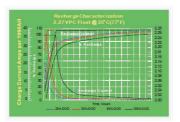
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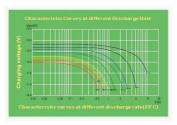
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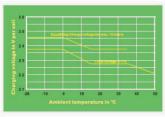
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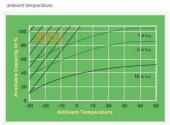


Float Voltage & charging

Constant Voltage charging is reco Recommended float voltage: 2.27VPC @ 25°C(77°F); Float Voltage Range: 2.25VPC to 2.30 VPC @ 25°C(77°F) Equalize voltage: 2.35VPC for 12 Hours

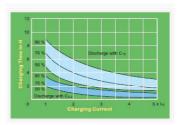


For charging 2.27 V/cell is recommended. The charging voltage must be compensated according to the curve for continuously different battery

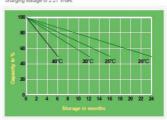


Extracted capacity in relation to the temperature

Apply for temperature range of 0°C / 32°F to 40°C / 104°F. Sub tract 3 mV / °C / cell or 1.7 mV / °E / cell above 25°C / 77°E Add 3mV / °C / cell or 1.7 mV / °F / cell, below 25°C / 77°F.



Recharging time in dependence of charging current (guide values) for up to 50, 70 and 90% of capacity at 25°C and with a charging voltage of 2.27 V/cell.



Self-discharge in relation to the storage temperature.

















مبيعات تعـــــــز / عدن 776222522 مبيعات صنعاء / الحديدة 776222922

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