# COMMERCIAL BATTERIES

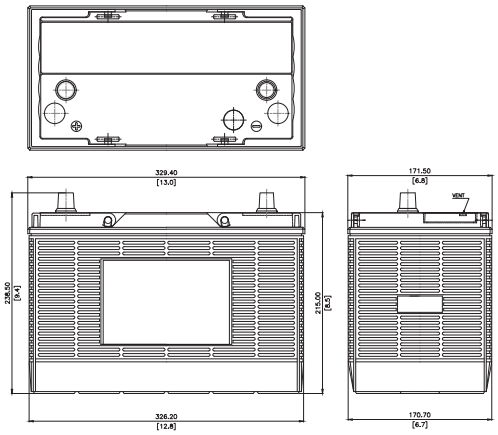
## DSAM 31A 10 MF



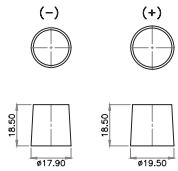

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| **Group Size** | 31A |
| **Terminal Type** | Standard |
| **L x W x H x TH [in]** | 13.0 x 6.8 x 8.5 x 9.4 in |
| **L x W x H x TH [mm]** | 330 x 172 x 215 x 239 mm |
| **Weight [lbs / kg]** | 55.40 lbs / 25.13 kg |
| **Case Material** | Polypropylene |
| **Cover** | Polypropylene |
| **Handle** | Polypropylene |
| **Hold Down** | B00 |
| **Cell Layout** | 1 |

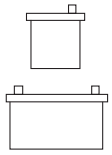
## BATTERY DIAGRAMS




Terminal: Standard




Hold Down: B00



## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| **Voltage (V)** | 12V |
| **Cold Cranking Amps (CCA)** | 1000 |
| **Cranking Amps (CA)** | 1250 |
| **Reserve Capacity (RC) @25 A** | 200 min |
| **C20 (Ah)** | 110 |
| **Internal Resistance (mΩ)** | 3.35 mΩ |

## CHARGE DISCHARGE AND TEMPERATURE

| | |
|---|---|
| **Self-Discharge/Month 68°F (20°C)** | 2.9% |
| **Self-Discharge/Month 104°F (40°C)** | 5.6% |
| **Operating Temperature (Range)** | -4°F/-20°C to 122°F/50°C |
| **Storage Temperature** | -4°F/-20°C to 104°F/40°C |

## CHARGE VOLTAGES

| CHARGE STAGE | 12V | 24V | 36V | 48V |
|---|---|---|---|---|
| **Bulk** | 14.2-14.7V | 28.4-29.4V | 42.6-44.1V | 56.8-58.8V |
| **Absorption** | 14.2-14.7V | 28.4-29.4V | 42.6-44.1V | 56.8-58.8V |
| **Float** | 13.2 V-13.6V | 26.4V- 27.2V | 39.6V-40.8V | 52.8-54.4V |

**TC Factor: (-2mV°F/cell) or (-4mV°C/cell)**

2700 Carrier Ave., Commerce, CA 90040 | Email: customerservice@ramcarbatteries.com | Phone: (323) 726-1212

©2025 RAMCAR BATTERIES. All rights reserved. Trademark and logos are property of RAMCAR and its affiliates unless otherwise noted. Subject to revisions without notice.
RAMCAR BATTERIES is not liable for damages arising from information in or omitted from this document.