AUTOMOTIVE BATTERIES

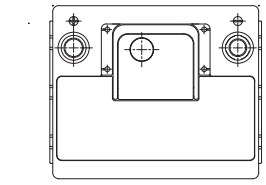
DSAM99R 4 MF

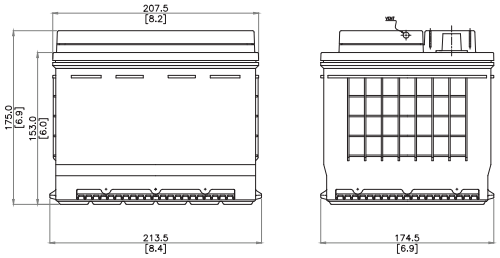


MECHANICAL SPECIFICATIONS

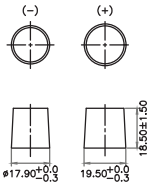
Group Size	99, 99R (LBN1)
Terminal Type	Standard
L x W x H x TH [in]	8.2 x 6.9 x 6.9 x 6.9 in
L x W x H x TH [mm]	208 x 175 x 175 x 175 mm
Weight [lbs / kg]	27.21 lbs / 12.34 kg
Case Material	Polypropylene
Cover	Polypropylene
Handle	Polypropylene
Hold Down	B13
Cell Layout	0

BATTERY DIAGRAMS



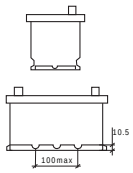


Terminal Type: Standard



POST TERMINAL DETAIL

Hold Down: B13



ELECTRICAL SPECIFICATIONS

Voltage (V)	12V
Cold Cranking Amps (CCA)	450
Cranking Amps (CA)	563
Reserve Capacity Min (RC)	80 min
20HR Nominal Capacity (AH)	50
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 (Range)	-4°F/-20°C to 104°F/40°C

CHARGE VOLTAGES

CHARGE STAGE	12V	24V	36V	48V
Bulk	14.4-14.7V	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.