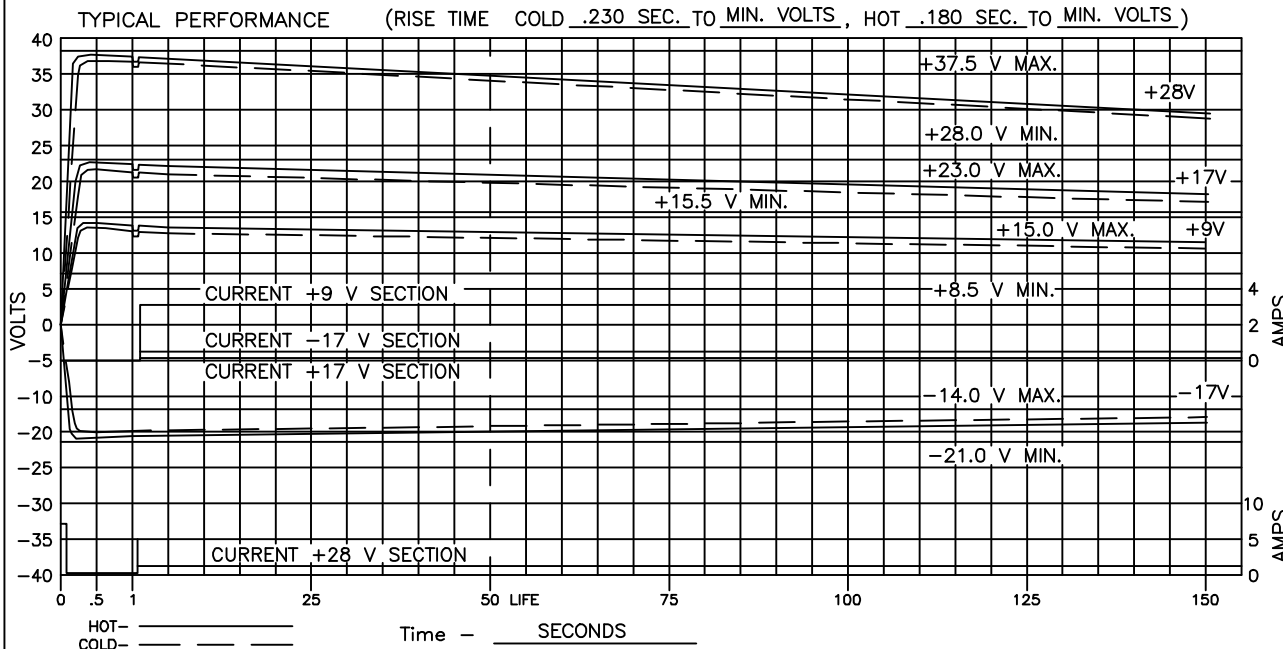


EAGLE-PICHER TECHNOLOGIES, LLC

FEDERAL SYSTEMS DEPARTMENT, ORDNANCE SYSTEMS OPERATION  
 P. O. BOX 47, JOPLIN, MO. 64801  
 TELEPHONE: 417-623-8000

THERMAL BATTERY  
 TECHNICAL DATA SHEET FOR BATTERY NO. CAP-12197A DATE 03-20-96



| ENVIRONMENTAL REQUIREMENTS (OPERATING) |                                |
|--|--------------------------------|
| Temperature:                           | -65°F MIN, 160° F MAX          |
| Acceleration:                          | N/A                            |
| Shock:                                 | N/A                            |
| Vibration:                             | N/A                            |
| Spin:                                  | N/A                            |
| Other:                                 | BENCH TEST (-55°C, 72°C)       |
|  | ALTITUDE 85°C 4HRS @ 5000 FEET |
|  | 72°C 1HR @ 5000 FEET           |
|  | -62°C 4HRS @ 50000 FEET        |
|  | -55°C 1HR @ 50,000 FEET        |

| ELECTRICAL REQUIREMENTS                              |   |
|--|---|
| Voltage: +28V: +28.0V TO +37.5V                      | +9V: +7.5V TO +13.0V                          |
| +17V: +16.0V TO +23.0V                               | -17V: -23.0V TO -16.0V                        |
| Load: +28V: 0.0V TO 2.5V 7.00A                       | +9V: 0.00-2.00 SEC 0.00A                      |
|  | 0.00-2.00 SEC 0.00A 2.00-50.0 SEC 3.00A       |
|  | 2.00-2.05 SEC 5.00A -17V: 0.00-2.00 SEC 0.00A |
|  | 2.05-50.0 SEC .50A 2.00-50.0 SEC .65A         |
|  | +17V: 0.00-2.00 SEC 0.00A                     |
|  | 2.00-50.0 SEC .55A                            |
| Rise Time: +28V: 1 SEC                               | -17V: 1 SEC                                   |
| +17V: 1 SEC  | +9V: .6 SEC                                   |
| Life: 50.0 SECONDS                                   |   |
| Activation: M42C1 PRIMER                             |   |
| Indicator: 240°F TEMPERATURE SENSITIVE PAINT STICKER |   |
| Case and Header Material: TYPE 304 STAINLESS STEEL   |   |
| Terminal Material: 52 Fe/Ni ALLOY HOT SOLDER DIPPED  |   |

Outline Configuration

Nominal Weight 773.5 gm

Nominal Volume 11.6 in<sup>3</sup>

