

INDUSTRIAL AUTOMATION PRODUCT

51199942-300

Ni-MH Memory Backup Battery Pack

Honeywell 51199942-300 is a Ni-MH memory-backup battery pack for the Series C power system. It supplies the RAM backup subsystem while the charger monitors battery health.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series C power system
Part number	51199942-300
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL VALUE
Battery chemistry	Ni-MH
Pack voltage	3.6 V
Minimum capacity	1100 mAh
Cell arrangement	3 cells
Low-voltage cutoff	3.4 V

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System Role and Architecture

Honeywell 51199942-300 is a Ni-MH memory-backup battery pack for the Series C power system. It supplies the RAM backup subsystem while the charger monitors battery health.

FUNCTION 1 Maintains RAM backup energy	FUNCTION 2 Supports memory retention during supply loss
FUNCTION 3 Is monitored by the charging circuit	FUNCTION 4 Triggers battery health diagnostics

Matched system components

- Series C power system
- Battery charging circuit
- BATTERYNOTOK diagnostic
- Memory-retention circuit

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Applications and Engineering Context

C300 memory backup

Maintains RAM backup energy

Series C battery replacement

Supports memory retention during supply loss

Controller power maintenance

Is monitored by the charging circuit

Battery-alarm troubleshooting

Triggers battery health diagnostics

TECHNICAL NOTE

Observe battery polarity and the approved replacement procedure, then confirm BATTERYNOTOK returns to OK after the charging and diagnostic cycle.

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Engineering Precautions

1

Verify the complete 51199942-300 marking and the assigned Experion Series C power system position before field work.

2

Isolate the applicable power, network and field energy before disconnecting 51199942-300.

3

Use ESD controls and protect the keyed connectors of 51199942-300 during handling.

4

Record the installed wiring, jumpers, node or channel assignment before replacement.

5

Confirm Series C power system and Battery charging circuit against the approved system configuration.

6

Restore 51199942-300 under controlled conditions and review the product-specific diagnostics.

7

Complete a functional test for c300 memory backup before production release.

MANUFACTURER SOURCE RECORD

Honeywell System HINTS January 2025

Memory Battery Backup

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