

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.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series C power system

PART

51199942-300

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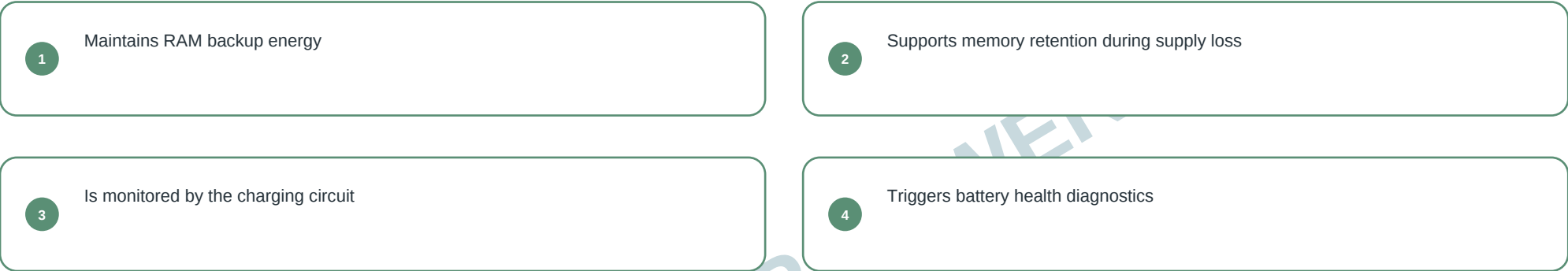
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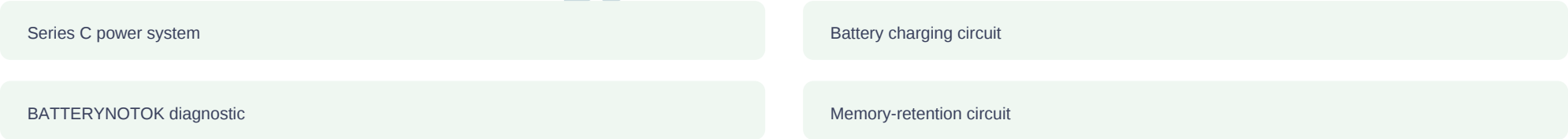
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PRODUCT OVERVIEW

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.



SYSTEM COMPONENTS



TECHNICAL DATA

PARAMETER	VALUE
Battery chemistry	Ni-MH
Pack voltage	3.6 V
Minimum capacity	1100 mAh

PARAMETER	VALUE
Cell arrangement	3 cells
Low-voltage cutoff	3.4 V

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TECHNICAL NOTE

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

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.

ENGINEER FAQ

Q1 Which Series C power system identity must be verified before fitting the 51199942-300 Ni-MH Memory Backup Battery Pack?

Match the complete 51199942-300 marking, assigned Experion Series C power system position and installed Series C power system before work.

Q2 How should Battery charging circuit be isolated before disconnecting the 51199942-300 Ni-MH Memory Backup Battery Pack?

Place the affected process in its approved maintenance state, isolate applicable energy and prove Battery charging circuit safe before disconnection.

Q3 What as-found wiring record is required for the 51199942-300 Ni-MH Memory Backup Battery Pack in C300 memory backup?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 51199942-300.

Q4 Which Experion Series C power system configuration must be checked when commissioning the 51199942-300 Ni-MH Memory Backup Battery Pack?

Verify the assigned channel, slot, node or interface and compare it with the approved Experion Series C power system configuration before enabling 51199942-300.

Q5 How can the 51199942-300 Ni-MH Memory Backup Battery Pack be function-tested for Series C battery replacement without disturbing the process?

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 Which diagnostics should be reviewed if the 51199942-300 Ni-MH Memory Backup Battery Pack stops performing its assigned system function?

Check seating, the matched Series C power system, the condition of Battery charging circuit and the model-specific diagnostics before replacing more hardware.

Q7 Can the 51199942-300 Ni-MH Memory Backup Battery Pack used for Controller power maintenance be transferred to another Experion Series C power system position without engineering review?

No. Confirm the hardware execution, connector scheme and approved Experion Series C power system configuration before transferring 51199942-300 to a different duty.

Q8 What evidence should be retained after the 51199942-300 Ni-MH Memory Backup Battery Pack returns to Battery-alarm troubleshooting service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 51199942-300.