

TECHNICAL BULLETIN

[Issue No.] FA-A-0104

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[Title] Product discontinuation of built-in battery of the A6BSW-P-S3/S4/S5/S6/S7 optic bypass switch

[Date of Issue] December 2010

[Relevant Models] A6BSW-BAT

Thank you for your continued support of Mitsubishi programmable controllers, MELSEC-A series.

Production of the following MELSEC-A series model will be discontinued.

1. Model to be discontinued

Product	Model
Built-in battery for the A6BSW-P-S3/S4/S5/S6/S7 optic bypass switch	A6BSW-BAT

2. Schedule

- Order acceptance: Through May 31, 2011
- Production discontinuation: June 30, 2011

3. Reasons for discontinuing production

Some parts of the above product are now obsolete. Therefore, we will have difficulty to maintain the production system.

4. Repair acceptance

- Repair acceptance: Through June 30, 2014 (For 3 years after production discontinuation)

Even though the repair acceptance period for the A6BSW-P-S3/S4/S5/S6/S7 optic bypass switch (production discontinued in October, 2010) is longer, we are not able to accept a repair of the built-in battery (A6BSW-BAT) after the date described above.

5. Alternative models

There is no alternative model available. Please consider taking either of the following measures.

- (1) Measure for preventing deterioration of built-in batteries (☞ 7. Storage conditions)
- (2) Measure for supporting the bypass function without using a built-in battery (☞ 8. Supporting the bypass function without using a built-in battery)

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6. Performance specifications

Item	Specifications
Model	A6BSW-BAT
Type	Sealed NiCd battery
Nominal voltage	7.2V
Operating (backup) time	6 hours (when a fully-charged battery is used)
Charging time	40 hours (for a fully-discharged battery)
Battery life	500 times (between fully-charged and fully-discharged)
	Operating temperature 40°C or lower: 5 years
	Operating temperature 41 to 55°C: 3 years
Storage ambient temperature	-30 to 45°C
External dimensions	186 (H) × 70 (W) × 35 (D) [mm]
Weight	0.95kg

7. Storage conditions

Storing built-in batteries in the following environment helps to prevent deterioration of battery capacity and performance. (This applies only within the range of the "battery life" specifications above.)

Item	Specifications
Storage ambient temperature	10 to 25°C
Storage ambient humidity	10 to 70%RH, non-condensing

- Avoid exposure to direct sunlight, corrosive gases, and dust.

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8. Supporting the bypass function without using a built-in battery

A built-in battery is used to support the bypass function of the A6BSW-P-S3/S4/S5/S6/S7 optic bypass switch.

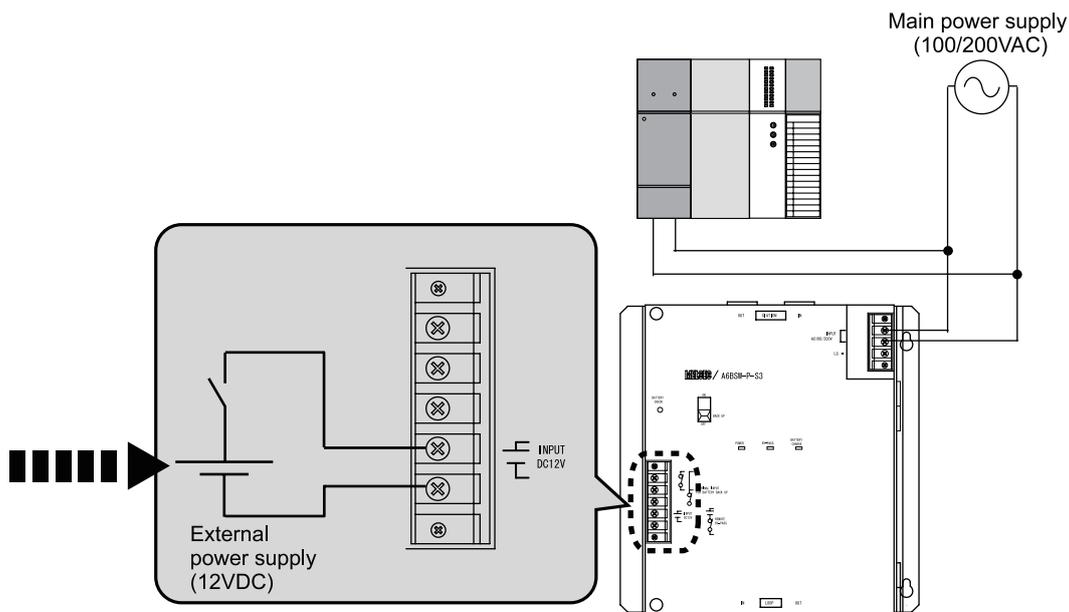
If a battery, however, is used exceeding the specified battery life, it will be difficult to maintain its performance specifications. For example, the operation time of the battery shortens due to deterioration.

Before the built-in battery deteriorates, consider a method to support the bypass function without using a built-in battery.

Use either of the following methods.

(1) Connecting an external power supply (12VDC)

Connect an external power supply (12VDC) to the INPUT DC12V terminal of the A6BSW-P-S3/S4/S5/S6/S7 optical bypass switch as an auxiliary power supply.



For wiring of the external power supply (12VDC), refer to the following.

 Optic Bypass Switch Type A6BSW-P-S3(S4/S5/S6/S7) User's Manual

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(a) Specification of external power supply (12VDC)

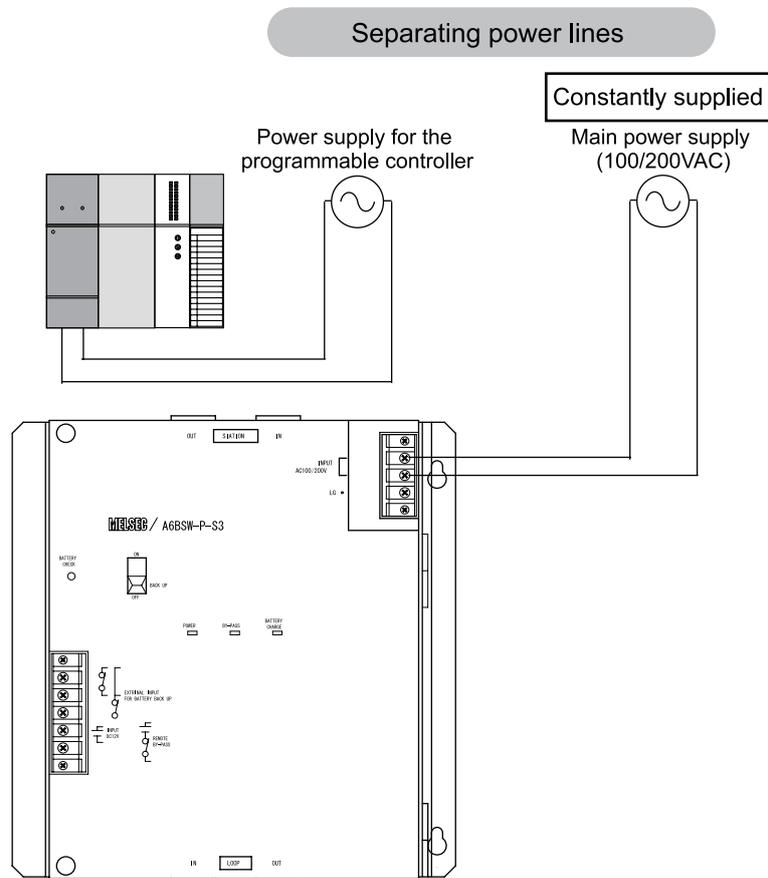
Item	Specifications
Rated voltage	12VDC
Operating voltage range	10.2 to 13.2VDC
Current consumption	0.6A

(b) Precautions

- When the BATTERY CHARGE LED is on (when backup of the bypass function using a built-in battery or external power supply (12VDC) is available), the external power supply consumes approximately 8mA/h.
- When the remote bypass function is being used, an external power supply (12VDC) cannot support the bypass function.

(2) Separating a power line (100/200VAC) for the A6BSW-P-S3/S4/S5/S6/S7 optic bypass switch

Separate a power line (100/200VAC) for the A6BSW-P-S3/S4/S5/S6/S7 optic bypass switch from that for the programmable controller as shown below so that power is supplied to the switch at all times.



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9. Relevant manual

For details of the A6BSW-P-S3/S4/S5/S6/S7 optic bypass switch, refer to the following.

Manual name	Manual number (model code)
Optic Bypass Switch Type A6BSW-P-S3(S4/S5/S6/S7) User's Manual	IB-66447 (13JE35)