# TECHNICAL BULLETIN


**[Title]** Production discontinuation of some MELSEC-A series models
**[Date of Issue]** March 2011 (Ver. A: November 2011)
**[Relevant Models]** A63P

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

The MELSEC-A series power supply module has been produced even after the discontinuation of production of MELSEC-A series. However, the following model will be discontinued.

**1. Models to be discontinued**

| Product name | Model |
|---|---|
| Power supply module | A63P |

**2. Schedule**

Order acceptance: Through September 30, 2012
Production discontinuation: October 31, 2012

**3. Reasons for discontinuing production**

Transition to new models has reduced demands for old models.

**4. Repair acceptance**

Repair acceptance: Through October 31, 2019 (For 7 years after production discontinuation)

**5. Measures**

Please take the following measures:

(1) Purchase spares by the date of order acceptance described in "2. Schedule".
(2) Replace the MELSEC-A series system by the MELSEC-Q series system.
(3) Among MELSEC-A series power supply modules, the production of the A61PN will be continued.

Note that the A61PN will require the construction of the power source (change from DC input to AC input).

**6. Recommendation**

For replacement in case of failure, please obtain the sufficient number of spares.

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**7. Storage of spares**

(1) General specifications of the programmable controller are as follows:
Storage ambient temperature: -20 to 75°C
Storage ambient humidity: 10 to 90%, non-condensing
Even though these specifications are met, storing the spares under high temperature or high humidity should be avoided.*1

(2) Store the spares in a place where they will not be exposed to direct sunlight.

(3) Store the spares under dust-free environment and in a place where corrosive gases are not present.

*1 The A63P uses an aluminium electrolytic capacitor.
When the aluminium electrolytic capacitor is left without power supply, even at room temperature, it will deteriorate four times as slow as when left with power supply.
For example, when the capacitor is stored for ten years at room temperature, its life will be shortened by two and a half years.
Storing the capacitor under high temperature or high humidity will further promote deterioration.

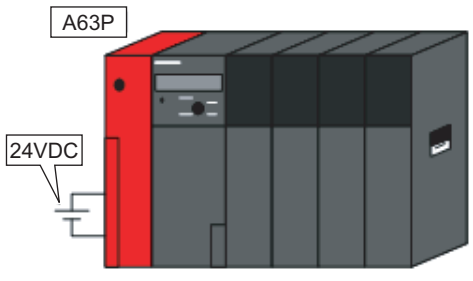
**8. Alternative plan**

Consider the following alternative plan if the construction of the power source described in 5, (3) is not a feasible option.

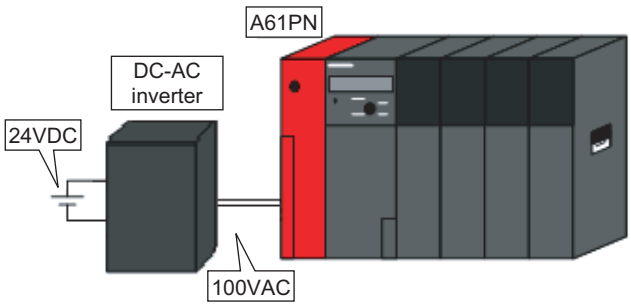
| Model to be discontinued | Alternative plan |
|---|---|
| A63P | DC-AC inverter + A61PN |

By converting 24VDC to 100VAC or 220VAC using a DC-AC inverter and supplying the voltage to the A61PN, almost same level of performance as the A63P can be provided. Check the specifications or the actual devices, though, because the specifications of the A63P and the alternative (DC-AC inverter + A61PN) are not exactly the same.

[Before] A63P




[After] DC-AC inverter + A61PN



(1) DC-AC inverter

The DC-AC inverters listed below are recommended to be used. Note that all inverters listed here can be connected to the power supply modules manufactured by Mitsubishi, but it does not mean that these inverters satisfy all of the specifications of the modules.

Therefore, when using the inverters, check the specifications (standards).

| Manufacturer | Model | Contact |
|---|---|---|
| ASIA ELECTRONICS IND. CO., LTD. | MA250-24-100S2.5A50<br>MA250-24-100S2.5A60<br>MA250-24-220S1.1A50<br>MA250-24-220S1.1A60 | http://www.asia-ele.jp/ |

(2) Specification comparison

| Model / Item | Model to be discontinued | Example of the alternative | |
|---|---|---|---|
| | A63P | DC-AC inverter (MA250-24-100S2.5A60) | A61PN |
| Input power supply | 24VDC +30%/-35% (15.6 to 31.2VDC) | 24VDC (18 to 36VDC) | |
| Rated output current | 5VDC 8A | 5VDC 8A*1 | |
| Maximum input power | 65W | 75W | |
| Inrush current | 100A within 1ms | 15A within 5ms (reference value) | |
| Overcurrent protection | 8.5A or higher (5VDC) | 8.8A or higher (5VDC) | |
| Efficiency | 65% or higher | 50% or higher (DC-AC inverter + A61PN)*2 | |
| Allowable momentary power failure time | Within 1ms | Within 1ms | |
| Weight | 0.8kg | 3.7kg*3 | 0.75kg |

*1 When the 24VDC power supply is tuned on, the A61PN turns on with delay of the duration required for the start-up of the DC-AC inverter.

*2 The circuit efficiency declines. Check if the 24VDC power supply currently used has a sufficient capacity.

*3 The DC-AC inverter cannot be mounted on a MELSEC-A series base unit and a DIN rail.
For how to install the inverter to a control panel, places where the mounting screws are attached, and the external dimensions, contact the manufacturer of the DC-AC inverter.

REVISIONS

| Version | Print Date | Revision |
|---|---|---|
| - | March 2011 | First edition |
| A | November 2011 | Description of "8. Alternative plan" section is added. |