

[Issue No.] FA-A-0045-A

[Page] 1/7

[Title] Precautions for new EU Battery Directive (2006/66/EC)

[Date of Issue] July 2008 (Ver. A : October 2008)

[Relevant Models] All MELSEC programmable controllers

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

The new EU Battery Directive (2006/66/EC) will take effect on September 26, 2008.

Batteries and devices with built-in batteries to be marketed in EU countries must comply with the directive.

1. Overview

The directive requires the following.

- To print the crossed-out wheeled bin symbol (hereinafter referred to as the symbol) on batteries, devices, or their packaging
- To explain the symbol in the manuals of the products



Figure 1 Symbol for batteries and packaging

To export devices incorporating Mitsubishi products to EU countries, follow the instructions described in Section 4 since the directive also applies to those products.

TECHNICAL BULLETIN

[Issue No.] FA-A-0045-A

[Page] 2/7

[Title] Precautions for new EU Battery Directive (2006/66/EC)

[Date of Issue] July 2008 (Ver. A : October 2008)

[Relevant Models] All MELSEC programmable controllers

2. New EU Battery Directive requirements

The following are new EU Battery Directive requirements imposed on manufacturers and distributors.

Enforcement date	September 26, 2008
Target area	EU countries
Target product	Batteries, accumulators, devices with built-in batteries
Exception	Devices associated with security, space batteries
Printing on batteries	1) The symbol must be printed on batteries, or on the packaging if it cannot be printed on the batteries. 2) If batteries contain more than a threshold quantity of mercury, cadmium, or lead, the chemical symbol must be also printed.
Explanation in manuals	1) The symbol must be explained. 2) The types of batteries must be described. 3) If batteries are replaceable, instructions on removing them safely must be described.

3. Relevant Mitsubishi models and changes

(1) Batteries built in modules

(a) Relevant models

Table 1 List of relevant battery models

Model	
K6BAT	Q6BAT
A6BAT	Q7BAT
A6BSW-BAT	

(b) Changes

The symbol must be printed on packaging or batteries.

(c) Schedule

Printing the symbol on packaging : From September 2008 production

Printing the symbol on batteries : From January 2009 production

TECHNICAL BULLETIN

[Issue No.] FA-A-0045-A

[Page] 3/7

[Title] Precautions for new EU Battery Directive (2006/66/EC)

[Date of Issue] July 2008 (Ver. A : October 2008)

[Relevant Models] All MELSEC programmable controllers

(2) Included modules and batteries

(a) Relevant models

Table 2 List of relevant module and battery models

Model	
A8BAT	Q02HCPU
A8BAT-SET	Q02HCPU-A
A10BAT	Q06HCPU
Q8BAT	Q06HCPU-A
Q8BAT-SET	Q12HCPU
Q7BAT-SET	Q25HCPU
A1SCPUC24-R2	Q02PHCPU
A1SJHCPU	Q06PHCPU
A1SHCPU	Q12PHCPU
A2SHCPU	Q25PHCPU
A2SHCPU-S1	Q12PRHCPU
A2ASCPU	Q25PRHCPU
A2ASCPU-S1	Q02UCPU
A2ASCPU-S30	Q03UDCPU
A2USCPU	Q03UDECPU
A2USHCPU-S1	Q04UDHCPU
Q6KT-NETGW-SS	Q04UDEHCPU
Q6KT-NETGW-GS	Q06UDHCPU
Q6KT-NETGW-RS	Q06UDEHCPU
Q6KT-NETGW-RB	Q13UDHCPU
Q6KT-NETGW-TS	Q13UDEHCPU
Q6KT-NETGW-TB	Q26UDHCPU
Q2ASCPU	Q26UDEHCPU
Q2ASCPU-S1	QS001CPU
Q2ASHCPU	QJ71WS96
Q2ASHCPU-S1	QJ71WS96-MES
A1FXCPU	QJ71MES96
A80BD-A2USH-S1	Q06CCPU-V
A80BDE-A2USH-S1	Q06CCPU-V-H01
Q00JCPU	Q06CCPU-V-B
Q00CPU	A6BSW-P-S3
Q01CPU	A6BSW-P-S4
Q02CPU	A6BSW-P-S5
Q02CPU-A	A6BSW-P-S6
	A6BSW-P-S7

TECHNICAL BULLETIN

[Issue No.] FA-A-0045-A

[Page] 4/7

[Title] Precautions for new EU Battery Directive (2006/66/EC)

[Date of Issue] July 2008 (Ver. A : October 2008)

[Relevant Models] All MELSEC programmable controllers

(b) Changes

The symbol must be printed on packaging or batteries.

(c) Schedule

Printing the symbol on packaging : From September 2008 production

Printing the symbol on batteries : From January 2009 production

(3) Batteries for memory cards

(a) Relevant models

Table 3 List of relevant battery models

Model	
Q2MEM-BAT	Q3MEM-BAT

(b) Changes

The symbol must be printed on packaging.

(c) Schedule

Printing the symbol on packaging: From September 2008 production

(4) Memory cards with included batteries

(a) Relevant models

Table 4 List of relevant memory card models

Model	
Q1MEM-64S	Q1MEM-256SE
Q1MEM-128S	Q1MEM-512SE
Q1MEM-256S	Q1MEM-1MSE
Q1MEM-512S	Q2MEM-1MBS
Q1MEM-1MS	Q2MEM-2MBS
Q1MEM-2MS	Q3MEM-4MBS
Q1MEM-64SE	Q3MEM-8MBS
Q1MEM-128SE	

(b) Changes

The symbol must be printed on packaging.

(c) Schedule

Printing the symbol on packaging: From September 2008 production

[Issue No.] FA-A-0045-A

[Page] 5/7

[Title] Precautions for new EU Battery Directive (2006/66/EC)

[Date of Issue] July 2008 (Ver. A : October 2008)

[Relevant Models] All MELSEC programmable controllers

4. Precautions and actions

The following are precautions and actions to be taken for Mitsubishi products.

- (1) To export batteries or devices incorporating memory cards with batteries, which have no symbols, to EU countries on September 26, 2008 or later, print the symbol shown in Figure 1 of Section 1 on the devices or packaging.
Stickers of the symbol are now available on request.
Please contact your local Mitsubishi representative.
- (2) To export devices incorporating Mitsubishi programmable controllers to EU countries on September 26, 2008 or later, provide the latest manuals that include the explanation of the symbol.
If no Mitsubishi manuals or any old manuals without the explanation of the symbol are provided, separately attach explanatory text regarding the symbol to each manual of the devices.
The text is available on request.
Please contact your local Mitsubishi representative.
- (3) Even if the relevant models are manufactured before the enforcement date of the new EU Battery Directive, the directive applies to them.
To export these models to EU countries on September 26, 2008 or later, take actions described in the above (1) and (2).
- (4) The directive applies to batteries, accumulators, and devices with built-in batteries used for all the discontinued modules.
To export them to EU countries on September 26, 2008 or later, take actions described in the above (1) and (2).
For information on the batteries used with the discontinued models, please contact your local Mitsubishi representative.

[Issue No.] FA-A-0045-A

[Page] 6/7

[Title] Precautions for new EU Battery Directive (2006/66/EC)

[Date of Issue] July 2008 (Ver. A : October 2008)

[Relevant Models] All MELSEC programmable controllers

5. Explanation in manuals

The following is the explanatory text regarding the symbol to be described in Mitsubishi manuals.
Use the text as a reference for explaining the symbol in each manual of the devices.



Note: This symbol mark is for EU countries only.

This symbol mark is according to the directive 2006/66/EC Article 20 Information for end-users and Annex II.

Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and/or reused.

This symbol means that batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

If a chemical symbol is printed beneath the symbol shown above, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows:

Hg: mercury (0.0005%), Cd: cadmium (0.002%), Pb: lead (0.004%)

In the European Union there are separate collection systems for used batteries and accumulators.

Please, dispose of batteries and accumulators correctly at your local community waste collection/recycling centre.

Please, help us to conserve the environment we live in!

TECHNICAL BULLETIN

[Issue No.] FA-A-0045-A

[Page] 7/7

[Title] Precautions for new EU Battery Directive (2006/66/EC)

[Date of Issue] July 2008 (Ver. A : October 2008)

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Revision history

Version	Print Date	Revision
-	July 2008	First edition
A	October 2008	[1.OVERVIEW] Figure 2 is removed. Title for the Figure 1 is changed from “Symbol for batteries” to “Symbol for batteries and packaging”. “EU” in illustration is removed from Figure 1.