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Product Service

# C E R T I F I C A T E

**No. Z2 013890 3329 Rev. 00**

**Holder of Certificate:** **Astec International Ltd.**
16th Floor, Lu Plaza, 2 Wing Yip Street
Kwun Tong
Kowloon
HONG KONG

**Certification Mark:**

**Product:** **Switching power supply unit (Switching Power Supply for Building-in)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

**Test report no.:** 6821020107902

**Valid until:** 2026-03-24

**Date,** 2021-03-25

( Yager Bi )


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# C E R T I F I C A T E

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## Model(s):

**73-540-0001i, 73-540-0001i-E, iMP4-abbc-abbc-abbc-abbc-abbc-xx (iMP4 series), iMP4E-abbc-abbc-abbc-abbc-abbc-xx (iMP4E series), MP4-yxx-yxx-yxx-yxx-yxx-ab (MP4 series), MP6-ABCD-ABCD-ABCD-ABCD-ABCD-EE (MP6 series) (See below table for details)**

## Parameters:

Rated Input:
For Model 73-540-0001i:
AC input: 100-240V / 200-240V, 12/9A, 50/60Hz
DC input: 120Vmin. -300Vmax. / 254Vmin. -300Vmax., 12/9A

For Model 73-540-0001i-E:
AC input: 100-240V / 200-240V, 12/9A, 50/60Hz

For Model iMP4 series:
AC input: 100-240V / 200-240V, 12/9A, 50/60Hz
DC input: 120Vmin. -300Vmax. / 254Vmin. -300Vmax., 12/9A

For Model iMP4E series:
AC input: 100-240V / 200-240V, 12/9A, 50/60Hz

For Model MP4 series:
AC input: 100-240V/200-240V, 50/60Hz, 7A

For Model MP6 series:
AC input: 100-240V/200-240V, 50/60Hz, 10A

Rated Output:
For Models 73-540-0001i and 73-540-0001i-E:
+375 to +395V: 1200W max.
+5Vsb: 1.0A max.
+18M1Vcc: 0.1A max.
+18M2Vcc: 0.1A max.
+18M3Vcc: 0.1A max.
+18M4Vcc: 0.1A max.
+18M5Vcc: 0.1A max.

For Models iMP4 series and iMP4E series:
DC +2V to +60V
(See below table for details)

For Model MP4 series:
(See below table for details .)

For Model MP6 series:
(See below table for details)

Protection Class: I
Construction: Built-in
Degree of Protection: IPX0


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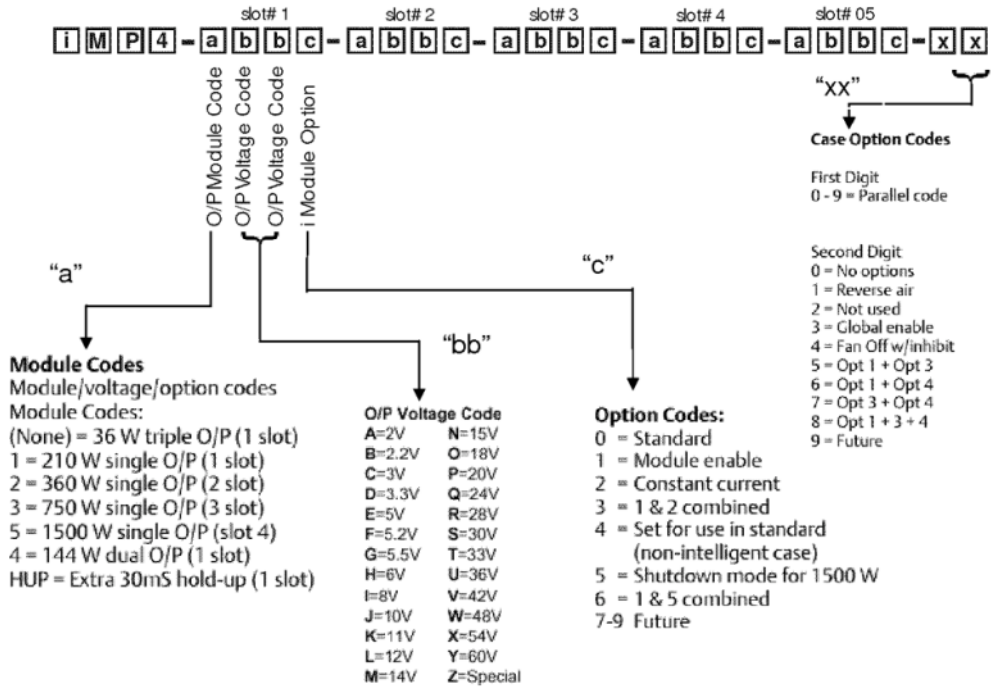
Remark:
- When installing the equipment, all requirements of the mentioned standard must be fulfilled.
- Refer to the installation and operating instruction from manufacturer for the details of loading condition and operating temperature.
- Clearance distance was evaluated for operating altitude up to 3048m above sea level.
- These power supplies contain output with hazardous power source, when installing into end system, care must be taken that the output and associated wire(s) may not be touched.
- Built-in type equipment, suitable enclosure should be provided in end system.
- Models 73-540-0001i, 73-540-0001i-E, iMP4-abbc-abbc-abbc-abbc-abbc-xx and iMP4E-abbc-abbc-abbc-abbc-abbc-xx have been evaluated according to EN 60601-1:2006/A1:2013 with the following conditions:
  - The output was not evaluated as patient connected circuits.
  - Compliance with the requirements for EMC shall be evaluated for the end use product.
  - These power supplies have been investigated only as a component part for use in equipment where the suitability of the combination is subject to end product investigation.
  - These power supplies are designed to be protectively earthed. Earthing connection and continuity test shall be checked in end product.
  - These power supplies must be installed in accordance with the instruction manual.
  - The leakage current test shall be checked in end product.
  - The risk management requirements of the standard were not addressed.
  - Clearance/creepage distance and dielectric strength were evaluated and fulfilled the requirements for MOPP.

iMP4-abbc-abbc-abbc-abbc-abbc-xx:

**DC Outputs:**





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# C E R T I F I C A T E

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| Case Size | Module/Voltage/Option Codes<br>First - Module Code<br>Second - Voltage Code<br>Third - Option Code | Case Option Codes | Software Code | Hardware Code |
|---|---|---|---|---|
| *i*MPX* | - 3L0 - 2E2 - 1Q1 - 4LL0 - | 00 | - A | - ### |

**Case Size**

**Case Size (mm)**
4 = 2.5" x 5" x 10"; 750 W-1100 W, 5 Slots (63.5 x 127 x 254)
8 = 2.5" x 7" x 10"; 1000 W-1200 W, 6 Slots (63.5 x 177.8 x 254)
1 = 2.5" x 8" x 11"; 1200 W-1500 W, 7 Slots (63.5 x 203.2 x 279.4)

*Note: Add "E" after iMP4 to denote IEC input option. e.g. iMP4E
(Not available on iMP8 or iMP1)

X - represent 4 or 8 or 1 which Case size

**Module/Voltage/Option Codes**

**Module Codes**
Module/voltage/option codes
Module codes:
(None) = 36 W triple O/P (1 slot)
1 = 210 W single O/P (1 slot)
2 = 360 W single O/P (2 slot)
3 = 750 W single O/P (3 slot)
4 = 144 W dual O/P (1 slot)
5 = 1500 W single O/P (4 slot)
6 - 9 = future

**Voltage Codes:**
See Output Module Voltage/Current table above

**Option Codes:**
0 = Standard
1 = Module enable
2 = Constant current
3 = 1 & 2 combined
4 = Set for use in standard (non-intelligent case)
5 = Shutdown mode for 1500W
6 = 1 & 5 combined
7 - 9 = future

**Case Option Codes**

First digit
0 - 9 = parallel code
(See Parallel Codes table above)

Second digit
0 = No options
1 = Reverse air
3 = Global enable
4 = Fan off w/inhibit*
5 = Opt 1 + Opt 3
6 = Opt 1 + Opt 4
7 = Opt 3 + Opt 4
8 = Opt 1 +3 +4
9 = CAN BUS/RS485 73-544-002
B = USB 73-546-002

**Software Code**

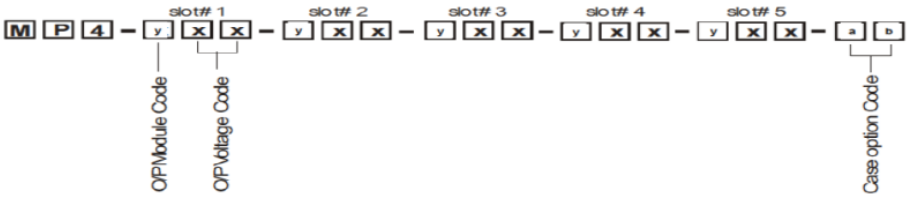
Software code used for configuration change. "A" is standard

**Hardware Code**

Factory assembled for hardware of firmware mods.

MP4-yxx--yxx-yxx-yxx-yxx-xx:

**DC Outputs:**




| Case Size | Module/Voltage/Option Codes<br>First - Module Code<br>Second - Voltage Code | Add-on Modules | Case Option Codes | Hardware Code |
|---|---|---|---|---|
| MPX | -3L - 2E - 1Q - 4LL | - HUP | - 00 | -### |

**Case Size**

**Case Size (mm)**
4 = 2.5" x 5" x 10"; 400 W-600 W, 5 Slots (63.5 x 127 x 254)
6 = 2.5" x 5" x 11"; 600 W-800 W, 5 Slots (63.5 x 127 x 279.4)
8 = 2.5" x 7" x 10"; 800 W-1000 W, 6 Slots (63.5 x 177.8 x 254)
1 = 2.5" x 8" x 11"; 1000 W-1200 W, 7 Slots* (63.5 x 203.2 x 279.4)

**Module/Voltage/Option Codes**

**Module Codes**
Module/Voltage/Option Codes
Module codes:
(None) = 36 W triple O/P (1 slot)
1 = 210 W single O/P (1 slot)
2 = 360 W single O/P (2 slot)
3 = 750 W single O/P (3 slot)
4 = 144 W dual O/P (1 slot)
5 - 9 = future

**Voltage Codes:**
See Output Module Voltage/Current table above

**Add-on Modules**

HUP = Hold up module
VME = VME POR signal and isolated DC

**Case Option Codes**

**Case Option Codes**

First digit
0 - 9 = parallel code
(See Parallel Codes table above)

Second digit
Standard Options
0 = No options
1 = Rear Air Exhaust
3 = Global enable
5 = Opt 1 + Opt 3
M = Low Leakage
N = Low Leakage + Opt 1
P = Low Leakage + Opt 3
R = Low Leakage + Opt 5

**Hardware Code**

Factory assigned for modifications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MP6-ABCD-ABCD-ABCD-ABCD-ABCD-EE:

**DC Outputs:**

Model/Type Configuration: MP6–ABCD–ABCD–ABCD–ABCD–ABCD–EE

Module/Voltage/Option Codes
First Digit – Module Code
Second & Third _ Voltage Code
Fourth Digit – Option Code

ABCD

A – Module Codes:
(Vo1 for 36W triple O/P)
(Blank or not used) = 36W triple O/P (1slot)
1 = 210W single O/P (1slot)
2 = 360W single O/P (2slot)
3 = 600W single O/P (3slot)
4 = 144W dual O/P (1slot)
5–9 = future

B & C– Voltage Codes:
B – Vo1 (Vo2 for 36W)
C – Vo2 (Vo3 for 36W)
See Output Module Voltage/Current Table

D– Option Codes:
0 = Standard
1 = Module Enable
2 = Constant Current
3 = 1 & 2 Combined
5 = Shutdown mode for 1500W
6 = 1 & 5 Combined
7–9 Future
If Option Code is blank, module in non–intelligent.

Note: Non–I is not allowed for Medical Applications.

Case Option Codes

EE

First Digit
0–9 = Parallel Code

Second Digit
0 = No Options
1 = Reverse Air
2 = Not Used
3 = Global Enable
5 = Opt 1 + Opt 3
M = Low Leakage
N = Low Leakage + Opt 1
P = Low leakage + Opt 3
R = Low Leakage + Opt 5

MP6 Case Specifications
(Slot NUmber Reference)

| SLOT 5 | SLOT 4 | SLOT 3 | SLOT 2 | SLOT 1 |
|---|---|---|---|---|

| Case Size | Module/Voltage/Option Codes<br>First - Module Code<br>Second - Voltage Code | Add-on Modules | Case Option Codes | Hardware Code |
|---|---|---|---|---|
| MPX | -3L - 2E - 1Q - 4LL | - HUP | - 00 | -### |
| **Case Size (mm)**<br>4 = 2.5" x 5" x 10"; 400 W-600 W, 5 Slots (63.5 x 127 x 254)<br>6 = 2.5" x 5" x 11"; 600 W-800 W, 5 Slots (63.5 x 127 x 279.4)<br>8 = 2.5" x 7" x 10"; 800 W-1000 W, 6 Slots (63.5 x 177.8 x 254)<br>1 = 2.5" x 8" x 11"; 1000 W-1200 W, 7 Slots* (63.5 x 203.2 x 279.4) | **Module Codes**<br>Module/Voltage/Option Codes<br>Module codes:<br>(None) = 36 W triple O/P (1 slot)<br>1 = 210 W single O/P (1 slot)<br>2 = 360 W single O/P (2 slot)<br>3 = 750 W single O/P (3 slot)<br>4 = 144 W dual O/P (1 slot)<br>5 - 9 = future<br><br>**Voltage Codes:**<br>See Output Module Voltage/ Current table above | HUP = Hold up module<br>VME = VME POR signal and isolated DC | **Case Option Codes**<br>First digit<br>0 - 9 = parallel code<br>(See Parallel Codes table above)<br><br>Second digit<br>Standard Options<br>0 = No options<br>1 = Rear Air Exhaust<br>3 = Global enable<br>5 = Opt 1 + Opt 3<br>M = Low Leakage<br>N = Low Leakage + Opt 1<br>P = Low Leakage + Opt 3<br>R = Low Leakage + Opt 5 | Factory assigned for modifications |

**Tested according to:**

EN 62368-1:2014/A11:2017
EN 60601-1:2006/A1:2013


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