



Product Service

CERTIFICATE

No. Z2 16 08 13890 02744

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



Certification Mark:



Product: **Switch mode power supplies
(Switching Mode Power Supply)**

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. See also notes overleaf.

Test report no.: 682701400705

Valid until: 2021-08-10

Date, 2016-08-12

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Model(s): **73-956-0001, 73-956-0001-G2,**
73-951-0001-G2,
uMP16x-yyz-yyz-yyz-yyz-yyz-yyz-ab,
uMP10x-yyz-yyz-yyz-yyz-yyz-yyz-ab
(See page 4-6 for details)

Parameters:

| | |
|------------------------|--|
| Rated Input : | For model 73-956-0001: 100-240/200-240VAC, 13/10A MAX., 50/60Hz or 120-300/254-339VDC, 13/10A MAX. (DC input for I.T equipment only) |
| | For models 73-956-0001-G2 and uMP16 series: 100-240/110-240/200-240/220-240VAC, 13/13/10/13A MAX., 50/60Hz or 120-339/254-339VDC, 13/10A MAX. (DC input for I.T equipment only) |
| | For models 73-951-0001-G2 and uMP10 series: 100-240/200-240VAC, 13/10A MAX., 50/60Hz or 120-339/254-339VDC, 13/10A MAX. (DC input for I.T equipment only) |
| Rated output : | See page 3 for details |
| Construction : | Built-in |
| Protection Class : | I |
| Degree of Protection : | IPX0 |
| Remark : | See page 3 for details. |

Tested according to: EN 60601-1:2006/A1:2013
 EN 60950-1:2006/A2:2013

Production Facility(ies): 49489, 28532, 64622, 64624, 92119, 80898, 80379, 85205,
 62777, 52066, 92570, 72064



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Rated Output :

For model 73-956-0001:
380V+10/-20V RMS Square Wave, 1000W Max. (For 100-240VAC or 120-300VDC input) or 1600W Max.
(For 200-240VAC or 254-339VDC input); +5Vsb, 2.0A (Optional)

For model 73-956-0001-G2:
380V+10/-20V RMS Square Wave, 1000W Max. (For 100-240VAC or 120-339VDC input) or 1200W Max.
(For 110-240VAC input) or 1600W Max. (For 200-240VAC or 254-339VDC input) or 1800W Max. (For 220-
240VAC input); +5Vsb, 2.0A (Optional)

For model 73-951-0001-G2:
380V+10/-20V RMS Square Wave, 1000W Max. (For 100-240VAC or 120-339VDC input) or 1200W Max.
(For 200-240VAC or 254-339VDC input); +5Vsb, 2.0A (Optional)

For models uMP16 series:
2.0-60.0VDC, 1000W Max. (For 100-240VAC or 120-339VDC input) or 1200W Max. (For 110-240VAC
input) or 1600W Max. (For 200-240VAC or 254-339VDC input) or 1800W Max. (For 220-240VAC input);
+5Vsb, 2.0A (Optional)

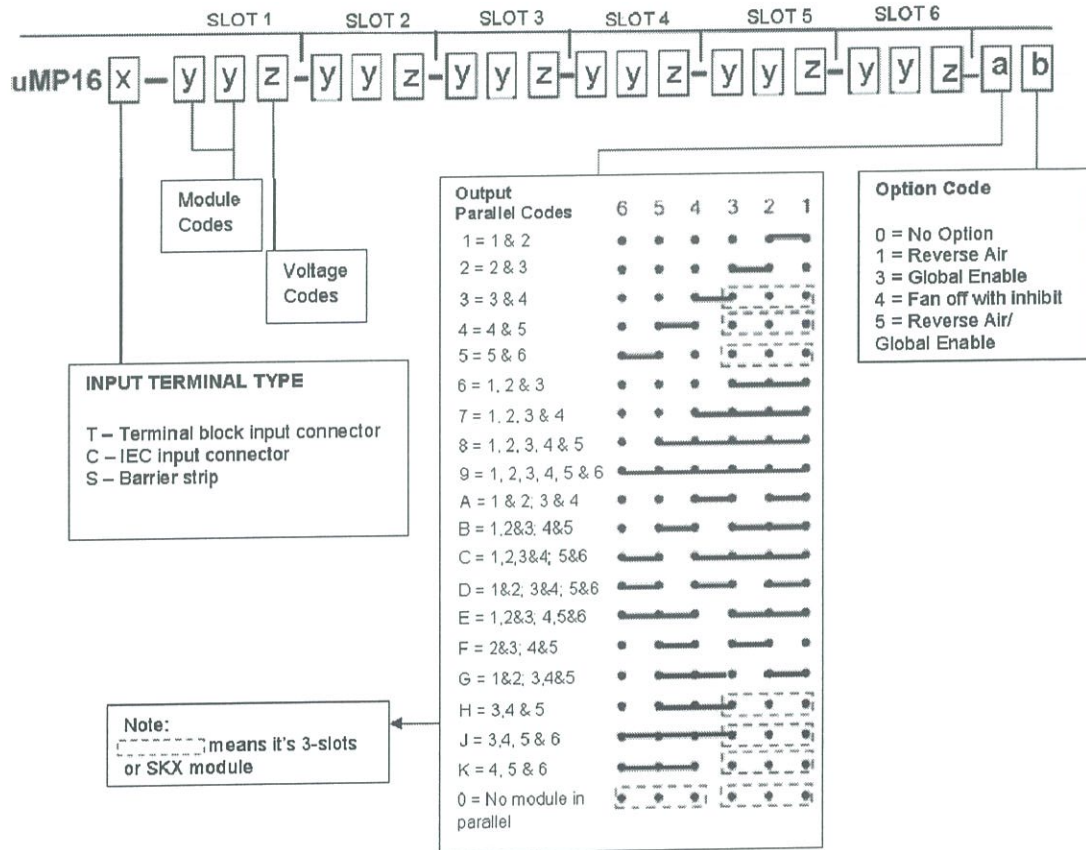
For models uMP10 series:
2.0-60.0VDC, 1000W Max. (For 100-240VAC or 120-339VDC input) or 1200W Max. (For 200-240VAC or
254-339VDC input); +5Vsb, 2.0A (Optional)

Remark:

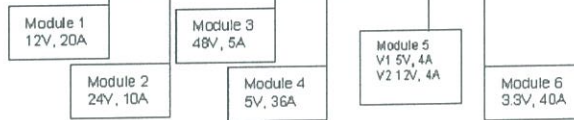
1. When installing the equipment, all requirements of the mentioned standard must be fulfilled.
2. Refer to the installation and operating instruction from manufacturer for the details of loading condition and operating temperature.
3. Clearance was evaluated for operating altitude up to 3048m above sea level.
4. These power supplies contain output consider as hazard voltage and exceeding 240VA, when installing into end system, care must be taken that the output and associated wire(s) may not be touched.
5. These power supplies only can be used in Pluggable type B, Permanently connected equipment, or Pluggable type A equipment which provides with permanently connected earthing terminal.
6. Built-in component, suitable enclosure should be provided in end system.
7. These power supplies have been evaluated according to EN 60601-1:2006/A1:2013 with 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.
 - This product has 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.
 - The leakage current test shall be checked in end product.
 - The risk management requirements of the standard were not addressed.
 - Clearance / creepage distance and electronic strength were evaluated and fulfilled the requirements for MOPP



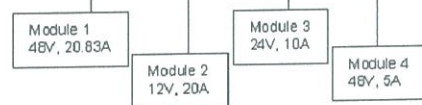
MODEL CONFIGURATION



Example 1: **uMP16T-S2L-S2Q-S2W-S2E-IEL-S2D-00**



Example 2: **uMP16T-SKW-S2L-S2Q-S2W-00**



Example 3: 11V, 22A; Module code – **S2K** Output Voltage Code

Example 4: V1 5.0V, 4A; V2 12.0V, 4A; Module Code – **IEL** Output Voltage Code

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Product Service

STANDARD OUTPUT RATINGS

| Module Output Voltage Code | Single Output ONE SLOT 240 Watts Max | Single Output THREE SLOT 1000 Watts Max | Dual Output ONE SLOT 192 Watts Max |
|----------------------------|---|--|---------------------------------------|
| Module Identification | S2 | SK | D/I |

VOLTAGE CODE TABLE

| Code | Voltage Output (V) | SINGLE OUTPUT MODULE | | | DUAL OUTPUT MODULE | | | SINGLE OUTPUT 3-SLOTS MODULE | | | |
|------|--------------------|--|-------------|---|--|--------|-----------------------------------|--|---|-------------|---|
| | | Output current for single output One Slot Module | Module | Max. Output power for Single Output One Slot Module (W) | Output Current For Dual Output One Slot Module | | Module | Max Output Power For Dual Output One Slot Module (W) | Output Current For Single Output 3-Slots Module | Module | Max Output Power For Single Output 3-Slots Module (W) |
| | | | | | V1 (A) | V2 (A) | | | | | |
| A | 2.0V | 40.0 | 73-961-0003 | 144 | N/A | | N/A | N/A | N/A | N/A | |
| B | 2.2V | 40.0 | | | N/A | | | | | | |
| C | 3.0V | 40.0 | | | N/A | | | | | | |
| D | 3.3V | 40.0 | 73-961-0005 | 180 | 4.0 | 4.0 | 73-962-0002 | N/A | N/A | N/A | |
| E | 5.0V | 36.0 | | | 4.0 | 4.0 | | | | | |
| F | 5.2V | 36.0 | | | 4.0 | 4.0 | | | | | |
| G | 5.5V | 32.0 | | | 4.0 | 4.0 | | | | | |
| H | 6.0V | 30.0 | | | 4.0 | 4.0 | | | | | |
| I | 8.0V | 25.0 | | | 4.0 | 4.0 | | | | | |
| J | 10.0V | 24.0 | | | 4.0 | 4.0 | | | | | |
| K | 11.0V | 22.0 | 73-961-0012 | 240 | 4.0 | 4.0 | 73-962-0001 AND 73-962-0002 | 192 | N/A | N/A | |
| L | 12.0V | 20.0 | | | 4.0 | 4.0 | | | | | |
| M | 14.0V | 17.0 | | | 4.0 | 4.0 | | | | | |
| N | 15.0V | 16.0 | | | 4.0 | 4.0 | | | | | |
| O | 18.0V | 13.0 | | | 4.0 | 4.0 | | | | | |
| P | 20.0V | 12.0 | | | 4.0 | 4.0 | | | | | |
| Q | 24.0V | 10.0 | | | 73-961-0024 | 240 | | | | | 4.0 |
| R | 28.0V | 8.6 | 3.4 | 3.4 | | | /2 | | | | |
| S | 30.0V | 8.0 | 3.2 | 3.2 | | | | 35.7 | | | |
| T | 33.0V | 7.0 | N/A | | | | 33.3 | | | | |
| U | 36.0V | 6.7 | N/A | | 73-962-0002 | N/A | | N/A | 21 | 73-963-0048 | |
| V | 42.0V | 5.7 | N/A | | | | 21 | | | | |
| W | 48.0V | 5.0 | N/A | | | | | | | | 20.83 |
| X | 54.0V | 4.4 | N/A | | | | 18.5 | | | | |
| Y | 60.0V | 4.0 | N/A | | | | | | | | 16.7 |