

Precautions on use of AC/DC converter

Caution note for operation

- 1) Please evaluate and confirm our part mounted in the set.
- 2) Exceeding loaded current (over the absolute current) may influence on the function, reliability.
Please make sure to use below the absolute electric power.
- 3) The output current should be reduced according to the increase of the ambient temperature.
(Refer to the derating curve)
- 4) Fuse should be used to avoid the emergent smoke or fire.
- 5) This product is not insulated on the primary sides, and there is a danger of electrical shock if it is touched. (except for isolation AC/DC converter)
- 6) Strong shock should not be influenced.
- 7) For external parts, please use those mentioned in this specification or those equivalent parts.
Efficient evaluation is necessary in case any other parts are used. Different parts may not satisfy the Spec or even result in failure cause.
- 8) Please be careful about the chattering at the start up of the power supply.
- 9) Make sure not to exceed the absolute max value when the overstress voltage and current is loaded to the module input and output terminal due to counter electromotive force during on and off in case of a motor and relay are loaded.
- 10) Dew
Weakened insulation between terminals due to dew would cause the abnormal operation and destruction. Please be careful especially the area between the external coil pins or input terminals.
- 11) Operation temperature
In case it is used in the closed up place, please measure temperature and confirm if it is within the derating curve.
- 12) Please do not add the loaded voltage exceeding output voltage on the output terminal to avoid destruction.
- 13) Please avoid to load the reverse voltage at the power supply start up since the output voltage would not start up when the reverse voltage is loaded on the output terminal.
- 14) Please fix this part in case of big vibration.
- 15) Please firmly solder lead pins by flow soldering basically. (260°C within 10sec)
In case of hand soldering. Please set soldering iron temperature below 310°C within 3 sec.
- 16) Please make sure to confirm the influence on the ability reliability due to remains flux in case high halogen activate flux is used. (chlorine, bromine, etc)
- 17) Please bend the lead pin at the thinner part of the lead. Please make sure of the following. All pins must be fixed. Lead pin can't be bent more than twice. (One return at the maximum.) The angle of bending must be within 90°

Precautions Regarding Product Storage

- 1) Product performance and soldered connections may deteriorate if the products are stored in the following places:
 - [a] Where the products are exposed to sea winds or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂
 - [b] Where the temperature or humidity exceeds those recommended by the Company
Recommendation storage temperature : 5 to 30°C
Recommendation storage humidity : 40 to 60 %RH
- 2) The guaranteed period of solder connections and product performance is within one year from shipment by the Company, provided that the above-mentioned storage conditions have been satisfied.

Notes

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In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.