

Please see datasheet and / or user manual before you use

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1. Before using our product

Warning

- ◆ When the product is in operation, inside there are components which have high voltage and high temperature. They may cause electrical shock or burn if you touch the internal components.
- ◆ Do not modify, disassemble or remove the enclosure of the product. This may cause electrical shock, burn or fire hazard.
- ◆ When the product is operating, keep your hands and face away from it. This may cause injury by accident.
- ◆ Install the product firmly in accord with the instruction manual. Inadequate installation may cause an electric shock, burn injury, or a fire hazard.
- ◆ The products should be installed by fully trained and experienced workers to avoid a possibility of electric shock or a fire hazard.
- ◆ Do not cover the product with things like cloth and paper. Do not put any flammable items around the products. It may cause a malfunction, an electric shock, or fire.

Attention

- ◆ It is necessary to read datasheet and / or user manual. Please confirm the content of datasheet and / or user manual before you use our products.
- ◆ Our products are designed and manufactured for the usage within ordinary industrial equipment, not for the usage requiring high safety (Such a high safety usage needs extremely high reliability. If neither reliability nor safety is secured, it will cause serious hazards on body or life directly). Although Cosel makes every effort to improve quality and reliability, the products may accidentally malfunction or fail. Therefore for your safety, consider to set up a safety measure such as the fail-safe function (a system that a protection circuit and protection device are built in or that a redundancy circuit is inserted in order to prevent the instable operation by the sole failure of the products) when using the products for the high safety use. If customers use the products for the high safety usage above mentioned, Cosel will not be responsible for any compensation requests claimed by the customers and/or third parties.
- ◆ Use the products within the specified input voltage, output current, output power, range of ambient temperature and ambient humidity. If the products are used beyond the specifications, it may damage the products or cause smoke or fire.
- ◆ Do not use the products in environments with direct sunlight, some conductive substances, dust, water, condensation, strong electromagnetic field, or corrosive gas (such as hydrogen sulfide and sulfur dioxide). It may cause a malfunction or failure of the products, smoke or fire at the worst case.
- ◆ If an internal fuse gets blown out, do not use the products by replacing the fuse. There may be some troubles in the products.
- ◆ An appropriate use of protection circuits is recommended even for the products with protection circuits since the internal protection circuit may not operate by some usage conditions. Also, be careful that internal fuses may not work depending on conditions of input line and input wiring.
- ◆ Make sure to take a protective measure against the surge voltage brought by lightning and so on. An abnormal voltage may damage the products.
- ◆ Connect the frame ground terminal of the products to the safety ground terminal of your equipment for safety and reducing noise. If the ground connection is not made properly, it may cause an electric shock hazard.

- ◆ External abnormal voltage should not be applied to the output of the products. Especially, when reversed voltage or overvoltage beyond the actual output voltage is applied to the outputs, it may cause a failure, an electric shock, smoke, or fire.
- ◆ Do not touch any components inside the products since they may remain high voltage and high temperature even though the products are not in operation. It can cause an electric shock hazard or burn injury.
- ◆ Do not modify, disassemble, or open the products. It may cause an electric shock hazard, burn injury, or a fire hazard. Cosel is not responsible for any damage caused by modifications, disassemblies, or reworks.
- ◆ If your fingers come into direct contact with the metal edges, there is a risk of injury. When handling, please exercise extreme caution, such as wearing protective gloves.
- ◆ Stop using the products and cut off the power when unusual operations such as abnormal output, strange odor, peculiar sound, or smoke are found. It may cause an electric shock or a fire. Contact us when these abnormal incidents occur. Do not repair the products as it is very dangerous.
- ◆ Do not use the products when they are dropped or given an excessive shock. Dropping or giving shocks to the products may cause malfunction.
- ◆ When you export the product, please comply with all appropriate export-related laws, and procedures.

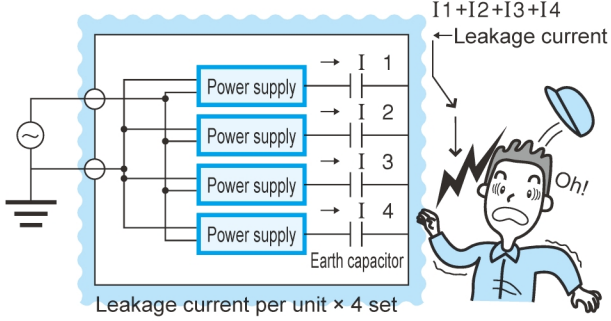
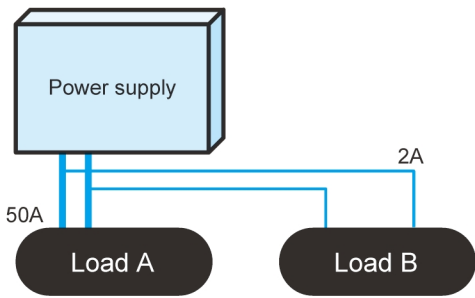
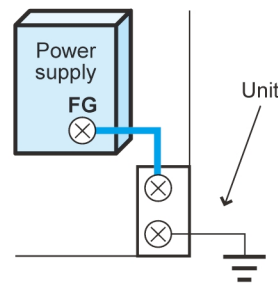
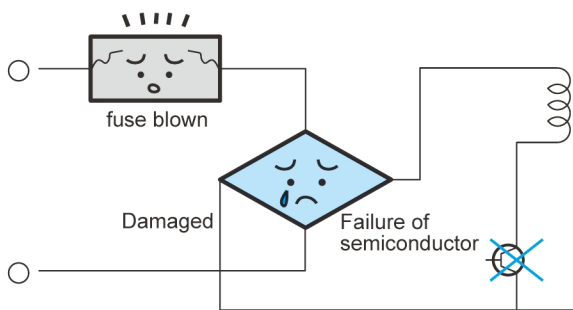
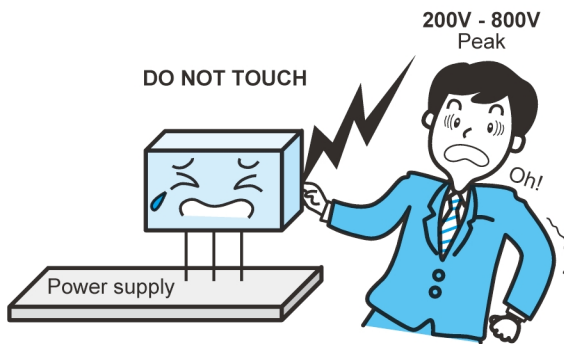
※ The content of datasheet and / or user manual may be changed without advanced notice.

Disclaimer

- ◆ Regardless of whether or not the products are within the warranty period, Cosel will not be responsible for any damage that is not attributed to Cosel and for opportunity losses and lost earnings on customers caused by the products' failures. And regardless of whether or not Cosel could predict, we will not take the responsibilities for any damage, secondary damage, compensations for accidents, damage on any products other than Cosel products and other affairs caused by extraordinary conditions.

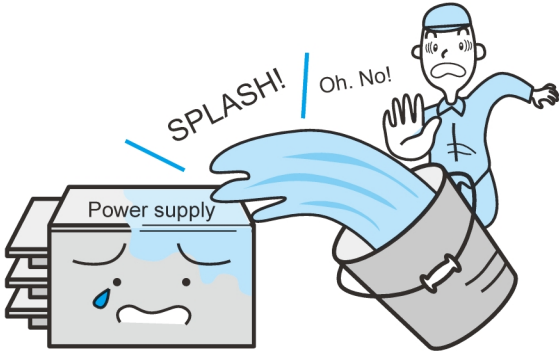
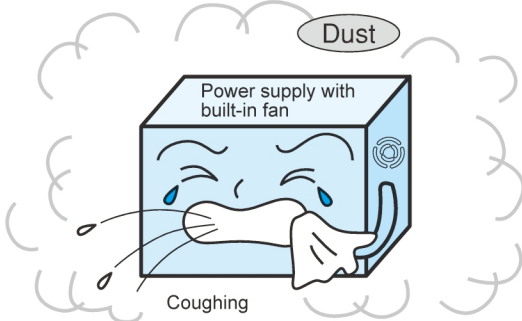
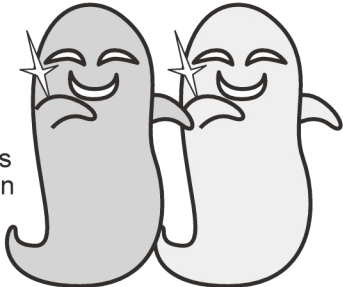
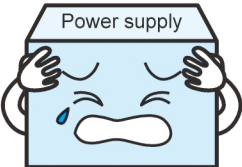
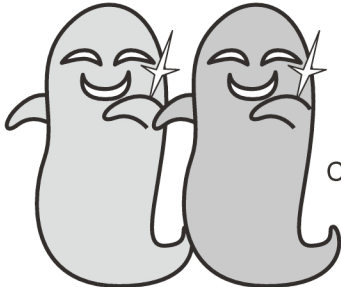
2. Caution For Safety And Products

Use the products within the specified input voltage, output current, output power, range of ambient temperature and ambient humidity. If the products are used beyond the specifications, it may damage the products or cause smoke or fire.

(1) Rated input voltage The range of input voltage is specified by products. If input voltage beyond the specification is applied, it may cause smoke or a fire hazard.	(2) Leakage current Leakage current flows between power supply wires and earth ground within the rated value. In case of the multiple operation, however, the total leakage current will be the sum of the leakage current flows from each power supply.  Leakage current per unit × 4 set
(3) Wires Rated voltage and current varies depending on a wire. It is necessary to use thick wires, which cover the rated output current of a power supply. 	(4) Earth The earth terminal of power supply should be connected to the equipment where power supply is placed as thicker and shorter to protect electric shock or noise interference. 
(5) Fuse When the internal fuse is blown, a power supply is most likely damaged. If this happens, please replace the unit with new one. 	(6) High voltage Some parts are generating high voltage inside the power supply. Please do not touch by hand. 

Generally, switch mode power supplies are designed to operate in controlled environments (e.g. inside the office). The products should have a special care because some operating conditions may cause a malfunction or failure of the products, smoke or fire at the worst case.

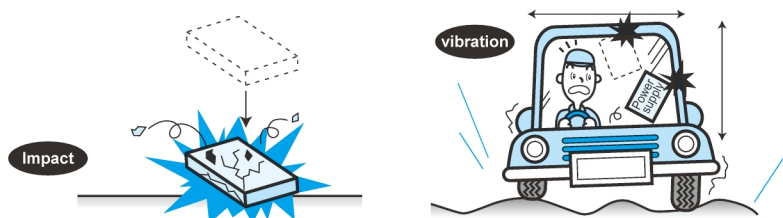
1. Environment where some measures need to be taken

(1) Water/Humidity	(2) Dust
If the products are operated in environments where water drops into the products or condensation occurs, it may cause a malfunction or failure of the products, smoke or fire at the worst case. In this case, please consider to take a water proof measure. 	When the products are operated in a dusty place, components failures such as a fan may occur and dust with moisture may cause insulation breakdown. Be cautious that these may cause a malfunction or failure of the products, smoke or fire at the worst case. In this case, please consider to take a dust proof measure. 
(3) Gas	
When the products are operated in environments where a fumigation process (measures against insects when exporting) by halogen compounds such as methyl bromide is implemented or corrosive gas occurs, it may damage components and cause a malfunction or failure of the products, smoke or fire at the worst case.  Halogen compounds (Fumigation process) Hydrogen sulfide  Power supply  Chlorine gas Sulfurous acid gas	

(4) Vibration/Impact

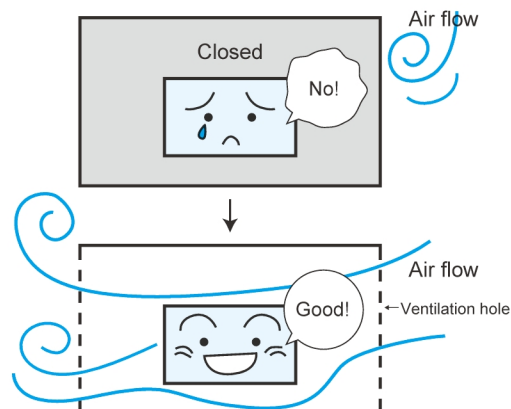
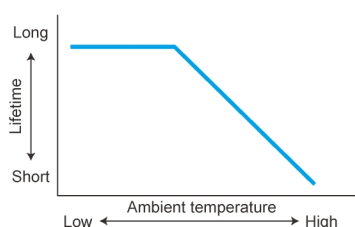
Please be careful when installing products in vibrating or high-impact locations.

Components could be damaged and cause malfunctions, or even worse, cause smoke or fire.



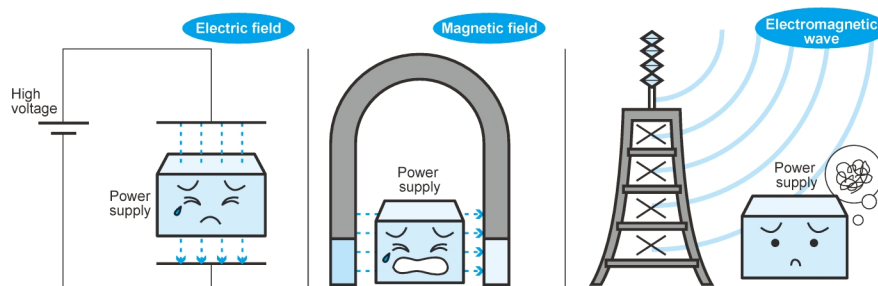
(5) Temperature

Switching power supplies have a finite life cycle, which is significantly affected by ambient temperature. Radical temperature changes can cause condensation, which could lead to product malfunction or failure, or possibly smoke or fire.



(6) Electromagnetic field

Environments with a strong electric field or electromagnetic waves can damage components and cause malfunction or failure, or cause smoke or fire.



(7) Storage

Please use the following conditions as a guideline for storage temperature and humidity.

Temperature range : 5-35°C

Humidity range : 45%-85%RH

Avoid storing product in the following conditions or else product life may decrease and malfunction, deterioration or failure may occur. Avoid:

Direct sunlight

High temperature, moisture, dust, water, oil or corrosive gas

Locations subject to vibration

