

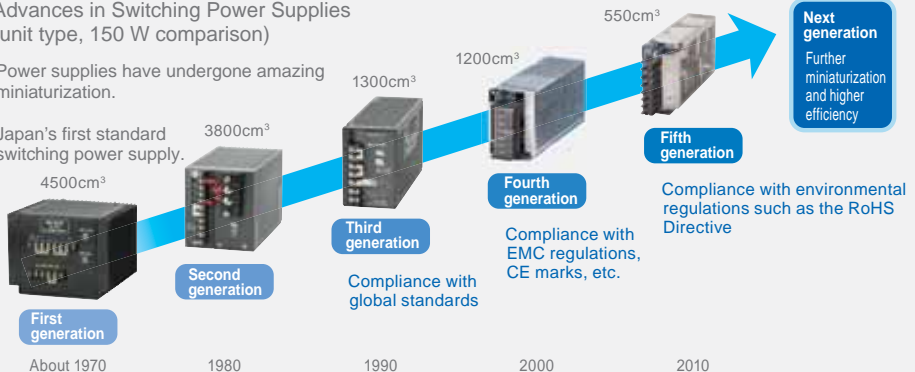
# Switching Power Supply Development History

- About 1960      Stabilized power supplies using vacuum tubes were common at this time.  
America's NASA began developing switching power supplies for use in space craft.
- About 1965      Development of semiconductor elements for switching power supplies begins.
- About 1970      TDK and Nippon Electronic Memory Industry Co. Ltd. (predecessor to Nemic-Lambda) enter the switching power supply business.
- 1972              Nippon Electronic Memory Industry Co. Ltd. manufactures and markets Japan's first standard switching power supply.  
TDK manufactures and markets switching power supplies.
- 1974              Switching power supplies are adopted for use in commercial television games and the switching power supply market expands.
- 1976              TDK manufactures and markets switching power supply transformers.
- 1978              Nemic -Lambda (predecessor to Densai-Lambda) founded, to take over operations of Nippon Electronic Memory Industry Co. Ltd.
- 1995              TDK begins production of DC-DC converters for use in HEVs.
- 2000              TDK launches the RKW and JBW series of switching power supplies.
- 2004              Densai-Lambda (the predecessor to TDK-Lambda) launches the HWS series of switching power supplies.
- 2005              Densai-Lambda joins the TDK Group.  
Sales of UPS with lithium-ion batteries (lead-free) begin.
- 2006              Sales of TDK-Lambda brand products begin.  
TDK and Densai-Lambda market a total of 234 types of EMC filters for power line in 13 series.
- 2008              All models available on the market comply with the RoHS Directive.  
TDK-Lambda Corporation launched.

## Advances in Switching Power Supplies (unit type, 150 W comparison)

Power supplies have undergone amazing miniaturization.

Japan's first standard switching power supply.



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1-13-1 Nihonbashi, Chuo-ku, Tokyo 103-8272  
Telephone: +81-3-5201-7102

