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NEC Empowered by Innovation

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The industry's first blade servers that support high-voltage DC power supply systems "Express5800/SIGMABLADE-M (compatible DC380V)" ~ HVDC 380V power supply system in response to the sale, up to ~ 20% reduction of data center power consumption

Nippon Electric Co., Ltd. December 15, 2011



"Express5800/SIGMABLADE-M (compatible DC380V)"

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NEC is the industry's first high voltage DC (HVDC, [a note](#)) power supply system (2) blade servers that support the "Express5800/SIGMABLADE (Transportationmuffrate)-M (corresponding DC380V)" to develop, sales activity from today to begin.

"Express5800/SIGMABLADE-M (compatible DC380V)" is equipped with a built-in power supply unit housing DC380V support newly developed by NEC.

This product is powered directly by enabling high-voltage DC power supply system at DC380V, traditionally needed alternating (AC) and direct current (DC) conversion (3) reduce the waste generated in power. Specifically, conventional AC power source (AC100 ~ 200V) compared with the scheme, up to 20% reduction in overall data center power supply facilities, including (4) becomes possible.

In recent years, disaster preparedness and business continuity (BC: Business Continuity) for Strengthening and increasing the system needs to operate a data center. NEC is focusing on corporate and businesses to build new data centers will continue to expand sales of new products.

Overview of new products are as follows.

1. **High voltage DC power supply (HVDC 380V)** only for small and medium sized blade enclosure **that supports blade server**
 "Express5800/SIGMABLADE-M" in, a high voltage DC power supply system advanced power (HVDC) power supply system corresponding to commercialize new model. Can be built into the blade server enclosure HVDC 380V power supply to support the development of NEC, in addition to the power conversion efficiency can reduce the installation space.
2. Support pre-market storage HVDC 380V
 already **can build a low power IT systems, including storage devices**, "iStorage M Series" (5) and combined,

corresponding to the HVDC 380V power source for both servers and storage system can be constructed.

By standardizing the feeding method, you can consolidate power in the data center equipment, capital investment and energy cost savings.

With the proliferation of cloud computing, servers installed in data centers is increasing rapidly, and further reduction in power consumption is required.

So far NEC, DC-48V, etc. DC12V, has been selling servers and storage products optimized to support DC power supply power supply system installation environment. This is further expanding the coverage.


NEC will continue, IT platform to support next-generation cloud computing vision "REAL IT PLATFORM Generation2" based on "flexible", "security" and "comfort" aims to deliver next-generation IT infrastructure.

Or more

(1) HVDC: High Voltage DC High Voltage Direct Current =.

In addition to the reduction of distribution losses due to high voltage power supply voltage of about 380V to ICT equipment in data centers and other feeding systems to reduce the number of stages AC / DC conversion by equipment powered by direct current to direct ICT.

(2) high-voltage DC power supply systems (for example, NTT FACILITIES products)

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(3)


Facilities to power plants generally alternating (AC) is used, the internal battery and ICT equipment current (DC) to work with each other through the need to convert DC / AC inverters and AC / DC Converter There are results in some loss of heat and convert it at that time.

(4)

Calculation NEC.

(5)

The iStorage M-series, corresponding to three models of HVDC 380V iStorage M10e/M100/M300.

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Inquiries from customers regarding this matter

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