Stress Free From Blackout! PROTECT your system with Nipron "Nonstop" power supply!

Nonstop Power Supply Special Feature

The most feared thing for systems would be the loss of confidence and trust from customers. Blackout may cause the crash of the system in the worst case following its abnormal system shutdown, which burdens vast amounts of money loss to customers. Because of the trouble of electric power company or natural hazard such as thunderstorm, we face "blackout" or "instantaneous

power failure" at switching of transmission grid, and "instantaneous drop" of line voltage.

"Blackout (AC stop)" may occur due to cabling trouble, breaker trip, or wrong operation. That is why it takes measures against power failures, and it must be secured for critical systems just in case. Responding to the case, we feature, this time, Nipron's "Nonstop power supply" in a bid to guard customer's critical system from power failures.

Troubles from Blackout

When inputting important data during data servers operated

- Data corruption - HDD failure - Start up error after the forced shutdown When using cash handling machines such as ATMs or ticket machines

- Withdrawn money does not come out - Deposits and withdrawals data corruption

When making the products on the production line - The interruption of

production proces - The initialization of equipment configuration

 (\frown)

AC input

60/

Battery inpu

Batt

Nonstop power supply simple diagram

AC side

inverter

Charger

BATT side

inverter

Secondarv side

circuit

Both AC and DC input at the same time: NO power failure at the

secondary side even if blackout o

instantaneous blackout happ

Even setting our own electric generators...

- During the instantaneous period between blackout and the start up of a private electric generator. stable energy can not be supplied.

Here is a solution for all the troubles! Nipron "Nonstop power supply" safely backs up the important system from sudden blackout or natural disaster.

What is Nonstop Power Supply?

O The Unique Technology of Nipron

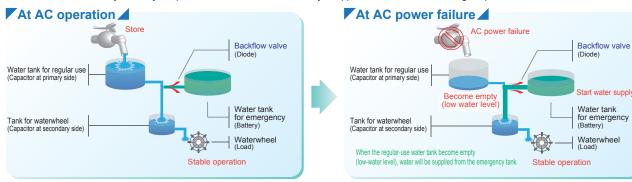
Nipron's original blackout backup circuit is embedded into "Nonstop" power supplies. With a battery package connected, the power supply can keep providing stable power without any abnormity and fluctuation even at input problems such as blackout, instantaneous blackout, and voltage drop.

O Power Feeding with NO instantaneous interruption

Nonstop power supply has NO time loss to switch to battery operation at blackout. It compares the voltage level of each inverter at AC and DC (Battery) side, and transfers higher voltage automatically. Thus it achieves high reliable power feeding without any instantaneous interruption. Please refer to the right for the major diagram of Nonstop power supply

Comparing the uninterruptible power feeding to water flow...

As in below compare the power to water flow, "Nonstop" power supply consists of the regular-use tank for AC input and emergency use tank for battery input. The water level of the secondary is always kept constant as the water is always supplied from the tank with higher pressure.



What's the difference between "Nonstop" power supply and UPS?

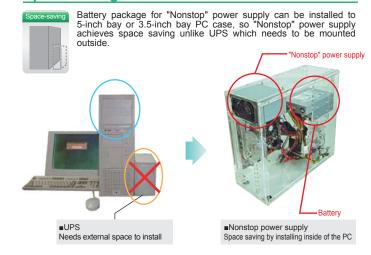
UPS (Uninterruptible Power Supply) is well known as one of the countermeasures against blackouts. "Nonstop" power supply also has uninterruptible power feeding function and high reliability. Then, what is the difference between "Nonstop" power supply and UPS? Here are the answers for the difference between "Nonstop" power supply and UPS.

Comparison between Nonstop Power Supply and UPS

Features comparison of UPS systems

UPS system	Voltage accuracy at normal operation	Switching time	Efficiency	Size	Weight	Price
Standby power system	Δ	Δ	Ø	Ø	0	O
Line interactive power system	0	0	0	Δ	Δ	0
Online power system	Ø	Ø	Δ	0	Δ	Δ
Multi-processing power system	O	O	0	Ø	0	0
Nipron 2G-2E system "Nonstop" power supply	Ø	Ø	O	O	Ø	O

Space Saving



Solve the Problem of Unstable Operation Related to Output Waveform



Low-cost UPS usually outputs the square wave which causes coil noise or unstable operation. Also, in some cases UPS falsely recognizes the waveform distortion of input voltage as blackout, then it switches to the battery operation and shuts PC down. "Nonstop" power supply solves all these problems with its original blackout backup circuit

Improve the Reliability



While UPS supplies power to PC system with connected in series, Nonstop power supply is connected to a battery in PC system. Since AC line and DC line from the battery are connected in parallel, low failure rate and high reliability are realized.

80PLUS BRONZE and ErP directive compliant, Nonstop power supply

HNSP9-520P-S20 series

Additional +24V or +48V output available





nsulated ATX outputs from +24V of +48V output which is excellent for driving can be added

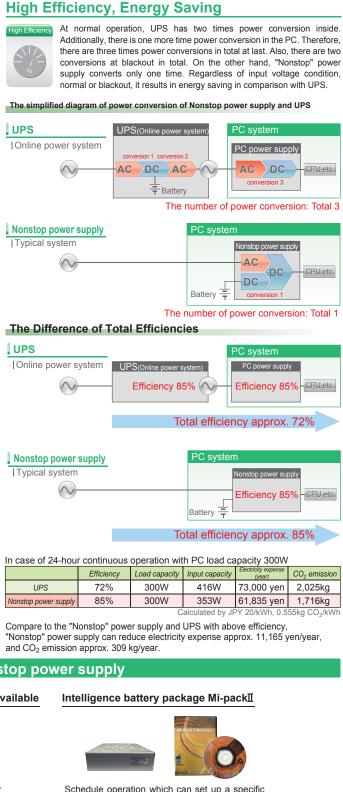
Continuous: 400W Peak: 520W

Safety standards: IEC/UL/CSA60950-1 Approved

- 80PLUS BRONZE approved - High efficiency with synchronous rectification circuit - Min. load current 0A for all outputs - With built-in thermal-sensing variable speed fan, sound reduction can be achieved Heat-related issues for CPU can be settled with fan speed changeover switch.

More than 20 models of "Nonstop" power supplies available!





Schedule operation which can set up a specific date and time is available. In addition, lifetime calculation based on characteristics, and lifetime prediction by the temperature, the frequency and elapsed time etc. is available

'80PLUS and ErP directive compliant ", "Medical standard approved", "DC start-up available", "Single output power supply"

Many different Nonstop power supplies available for each of your applications due to avoid any troubles from blackout.