Nipron
GAZE into the future

Nipron Wave
Vol.84

Highlights

1. **New Product: GPSU-800/1500P series**
   800 W unit-type 1U power supply with energy-saving mode
2. **PC/Single-output power supplies**
   New product, SFXL-700P-S, and our recommended PC power supplies
   Single-output power supplies with high efficiency and high reliability

800 W Unit-Type 1U Power Supply with Energy-Saving Mode

NEW

Continuous: 800 W

Peak: 1200 W (100 VAC) 1500 W (200 VAC)

Output voltage: 24 V, 48 V Size: 127×41×200 (W×H×D) mm

GPSU-800/1500P series

Scheduled for release in 2026

Specification

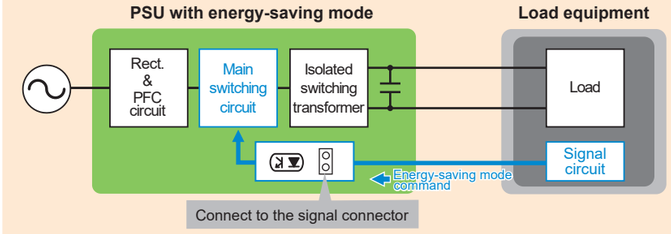
Output voltage	+24 V	+48 V	+12 VSB (optional)*
Max. current/ Max. power (Continuous)	33.4 A	16.7 A	0.85 A
	801.6 W	801.6 W	10.2 W
Peak current/ Peak power (within 5 s) 100 VAC	50 A	25 A	0.85 A
	1200 W	1200 W	10.2 W
Peak current/ Peak power (within 5 s) 200 VAC	62.5 A	31.25 A	0.85 A
	1500 W	1500 W	10.2 W
Min. current	0 A	0 A	0 A
Input voltage	100-240 VAC		
Size (W×H×D)	127×41×200 mm		
Safety standard	UL62368-1, CSA62368-1 (c-UL) expected to be certified / CE, UKCA marking / SEMI-F47 compliant		

* Standby output is available only for GPSU-800/1500P-**/S12-*** models.

Reducing power loss at light loads with energy-saving mode

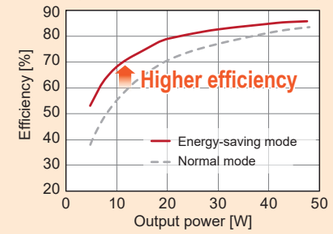
Conventional switching power supplies (PSUs) achieve high efficiency near the rated load. However, efficiency decreases during standby and light load operation, resulting in increased power loss.
The “energy-saving mode” changes the operation mode of PSU and reduces the power loss during standby and light load operation by issuing the “energy-saving mode command” from the load side circuit to PSU when the load of connected equipment is low.
In addition to the high efficiency performance under the rated load, it optimizes the efficiency in light load regions to improve the energy-saving performance of entire device.

Connection concept



Example of efficiency improvement

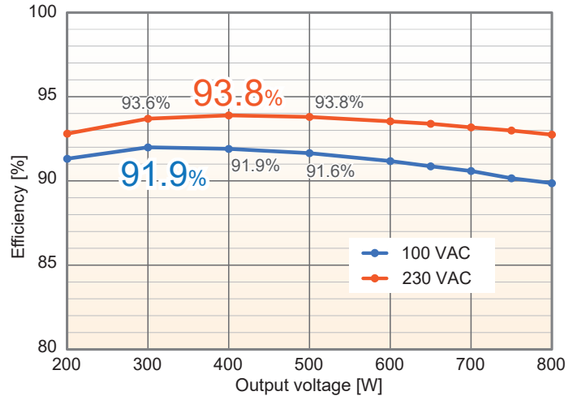
GPSU-800/1500P-24
An example of measurement at 100 VAC input.



High efficiency

By the adoption of high-efficiency circuit, the maximum efficiency of approx. 94% is achieved. This reduces the heat generation and facilitates miniaturization of device and enhancement of its reliability.

■Efficiency graph (GPSU-800/1500P-24 An example of measurement)



Smaller with higher capacity

Compared to Nipron's conventional model, the GPSA-600 series, the GPSU-800/1500P series features an approximately 40% smaller size and 2.2 times the power density.

GPSA-600
Power density 0.34 W/cm³
Continuous: 600 W
Peak: 1200 W (At 100 VAC) 1440 W (At 200 VAC)
Size: 128×61×240 (W×H×D) mm

2.2 times the power density

GPSU-800/1500P
Power density 0.77 W/cm³
Continuous: 800 W
Peak: 1200 W (At 100 VAC) 1500 W (At 200 VAC)
Size: 127×41×200 (W×H×D) mm

Slim 1U size

The device has been made smaller and slimmer. The height of 41 mm enables integration into the 1U rack.

Other features

- Equipped with standby output (optional)
- Momentary power failures can be addressed by connecting capacitor units (optional)
- A model certified to the medical safety standard IEC 60601-1 will be available.
- A nylon connector model is planned for future release.

*Since the product is under development, the specifications and appearance shown here may change without notice.

Single-Output & Multi-Output Power Supplies

Designed and made in Japan

For safety, reliability, and high quality

A manufacturer dedicated to PSU

Quality and reliable products using the company's expertise in power supply and experiences gained ever since its incorporation

Long-term stable supply

Essentially 10 years of stable supply since their launch

Solutions for blackouts and momentary power failures

Backup support in case of power failure

Board-type single-output power supplies

	FZP-025	FZP-040	UZP-120	UZP-150	UZP-220	OZP-240/600P
Continuous output (W)	13.2-26.4	30-39.6	100.8-120	150-153.6	180-220.8	201.6/240 (at 100/200 VAC)
Peak output (W)	16.5-31.5	40-60	200.4-201.6	400.8-403.2	400.8-401.4	400.8-403.2/600 (at 100/200 VAC)
Output voltage (V)	3.3, 5, 12, 15, 24	5, 12, 15, 24	12, 24	12, 18, 24, 48	12, 18, 24, 48	24, 48
Size W×H×D (mm)	50×28×62.5	50×26×87.5	62×27×155	75×35×160	75×36×160	73×41×222
Backup *1 for momentary power failures /blackouts	—	CB03-EC400/801F Capacitor board CB03B-EC400/801F Capacitor board	CB03A-EC400/801F Capacitor board BS27A-P350/12V Charging/ discharging board for lead-acid battery BS28A-H350/2.5L Nickel-metal hydride battery	Note A	BS13A-EC400/422F Capacitor pack CB03-EC400/801F Capacitor board BS27A-P350/12V Charging/ discharging board for lead-acid battery BS28A-H350/2.5L Nickel-metal hydride battery	Note A

	OZP-350	UZP-400	UZP-400/1200P	UZP-600
Continuous output (W)	300-352.8	320.4-403.2	402-403.2	600-601.2
Peak output (W)	504-601	504-604.8	1200-1202.4	1200-1202.4
Output voltage (V)	12, 15, 24, 30, 36, 48	12, 24, 36, 48, 56	24, 30, 36, 48	24, 30, 36, 48
Size W×H×D (mm)	95×47×222	84×45×180	84×45×180	127×44×228.6
Backup *1 for momentary power failures /blackouts	BS13A-EC400/422F Capacitor pack CB01A-EC400 series Capacitor board	BS28A-H350/2.5L Nickel-metal hydride battery CB01A-EC400 Capacitor board CB03A-EC400/801F Capacitor board	—	Note A

Board-type multi-output power supplies

	OZM-015	OZM-030 (2 outputs type)	OZM-030 (3 outputs type)
Continuous output (W)	13.8-17.5	36	29.1-34.5
Output voltage (V)	+3.3 V/+12 V/-12 V, +3.3 V/+15 V/-15 V +5 V/+12 V/-12 V, +5 V/+15 V/-15 V	+12 V/-12 V, +15 V/-15 V	+3.3 V/+12 V/-12 V, +3.3 V/+15 V/-15 V +5 V/+12 V/-12 V, +5 V/+15 V/-15 V
Size W×H×D (mm)	50×28×127	55×28×133	65×31.5×140

Medical standards model board-type single-output power supplies

	mFZP-075	mUZP-120	mUZPT-120	mUZP-150	mUZP-220	mUZP-220/520P
Continuous output (W)	50-75	100.8-120	100.5-120	150-153.6	180-220.8	220.8
Peak output (W)	75-150	200.4-201.6	200.4-201.6	400.8-403.2	400.8-401.4	520.8
Output voltage (V)	5, 12, 15, 24	12, 24	12, 15, 24	12, 18, 24, 48	12, 18, 24, 48	24 (with 5VSB)
Size W×H×D (mm)	55×28×133	62×27×155	62×38×155	75×35×160	75×36×160	75×36×160
Backup *1 for momentary power failures /blackouts	CB03B-EC400/801F Capacitor board	—	—	Note A	CB03-EC400/801F Capacitor board BS13A-EC400/422F Capacitor pack	—
Medical standards	IEC60601-1 Ed.3.2 2MOPP, 2MOOP	IEC60601-1 Ed.3.2 2MOOP	IEC60601-1 Ed.3.2 2MOPP, 2MOOP	IEC60601-1 Ed.3.2 2MOPP, 2MOOP	IEC60601-1 Ed.3.2 2MOPP, 2MOOP	IEC60601-1 Ed.3.2 2MOPP

	mOZP-350	mUZP-400	mUZP-400/1200P
Continuous output (W)	300-352.8	320.4-403.2	403.2
Peak output (W)	504-601	504-601.2	1200
Output voltage (V)	12, 15, 24, 30, 36, 48	12, 24, 36, 48	24, 48
Size W×H×D (mm)	95×47×222	84×45×180	84×45×180
Backup *1 for momentary power failures /blackouts	BS13A-EC400/422F Capacitor pack	CB01A-EC400 Capacitor board CB03A-EC400/801F Capacitor board	—
Medical standards	IEC60601-1 Ed.3.2 2MOPP	IEC60601-1 Ed.3.2 2MOPP, 2MOOP	IEC60601-1 Ed.3.2 2MOPP, 2MOOP

Note A : Capacitor boards and battery packs can be connected. Please contact us for details.

Protective measures

Operator Protection:

MOOP ***Means of Operator Protection***

Protective measures to reduce the risk of electric shock to people other than the patient

Patient Protection:

MOPP ***Means of Patient Protection***

Protective measures to reduce the risk of electric shock to the patient

Unit type (DIN-rail compatible) single-output power supplies

DIN-rail compatible

UDP-120

DIN-rail compatible

UDP-180

DIN-rail compatible

UDP-240

GPSA-600

GPSA-1000

GPSA-1500

	UDP-120	UDP-180	UDP-240	GPSA-600	GPSA-1000	GPSA-1500
Continuous output (W)	120	180	240	600-601.2	907.2/1008 (at 100/115-240 VAC)	1056-1104 (at 100 VAC) 1512-1632 (at 200 VAC)
Peak output (W)	201.6/300 (at 100/200 VAC)	201.6/300 (at 100/200 VAC)	400.8	960-1200 (at 100 VAC) 1200-1440 (at 200 VAC)	1188-1200 (at 100 VAC) 1320/2016 (at 115/240 VAC)	1320 (at 100 VAC) 2040-2112 (at 200 VAC)
Output voltage (V)	24	24	24	12, 24, 36, 48	24, 48	24, 48
Size W×H×D (mm)	35×124×117.5	35×124×117.5	41×124×117.5	128×61×240	128×61×240	128×82×250
Backup *1 for momentary power failures /blackouts	DS01A-EC400/172F Capacitor unit	DS02A-L24/2.5L Lithium-ion battery unit		BS14A-H24/2.5L Nickel-metal hydride battery *For 24 V output models only	—	—

Under development

GPSU-800/1500P

Under development

GPRA-2000

GPSA-5000

GP1UT-6000

GP6UT-10K

	GPSU-800/1500P	GPRA-2000	GPSA-5000	GP1UT-6000	GP6UT-10K
Continuous output (W)	800	2000	4800-4992	6600-7200	7560-10800
Peak output (W)	1200/1500 (at 100/200 VAC)	—	6000	—	—
Output voltage (V)	24, 48	24, 48, 100	48, 96	400	400
Size W×H×D (mm)	127×41×200	127×63×298	198×125×314	444×43×500	255×146×460

*1 Compatible power supply is a dedicated model. Please contact us for details.

NEW

High-Power SFX Power Supply

Continuous: 575 W Peak: 700 W

Size: 125×63.5×125 (W×H×D) mm

SFXL-700P-S

Scheduled for release in 2026

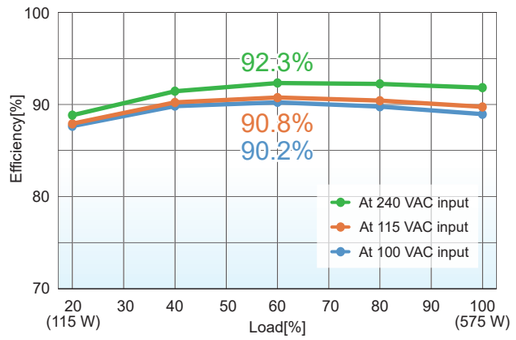
Output specification

A peak power of 700 W, exceeding the maximum continuous capacity, is available.

Output voltage	+3.3 V	+5 V	+12 V	-12 V	+5 VSB
Continuous max. current/power	12 A	16 A	47.5 A	0.2 A	3 A
	39.6 W	80 W	570 W	2.4 W	15 W
	Total 83 W				
	Total 570 W				
	Total 575 W				
Peak current/power (within 5 s)	16 A	16 A	57 A	0.2 A	3.5 A
	52.8 W	80 W	684 W	2.4 W	17.5 W
	Total 83 W				
	Total 685 W				
	Total 700 W				

Designed to achieve high efficiency

This model maintains stable power supply even in a stressful environment and supports efficient system operation.

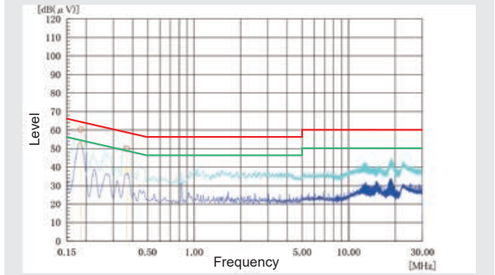


(SFXL-700P-S, an example of measurement)

Low noise and low leakage current

The PSU clears VCCI Class B for the conducted emissions. Because there is no need to install an external noise filter, it facilitates reductions in the cost and man-hours required.

■ Conducted emissions
Input: 110 VAC, Output: rated load (an example of measurement)



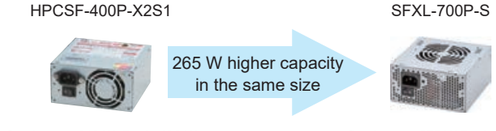
■ Leakage current (an example of measurement)

	Rated load	Minimum load
100 VAC	0.19 mA	0.18 mA
264 VAC	0.49 mA	0.49 mA

This PSU reduces leakage current while clearing VCCI Class B for conducted emissions.

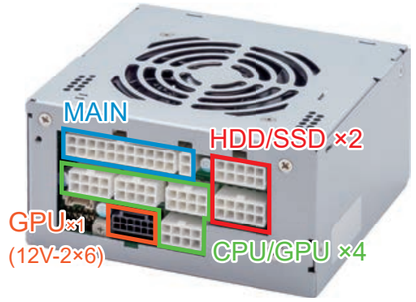
Achieves approx. 2 times of the power density of Nipron's conventional models

Compared with Nipron's conventional models in the HPCSF-400P series, the SFXL-700P series offers 1.85 times the power density, contributing to the compact design of embedded devices.



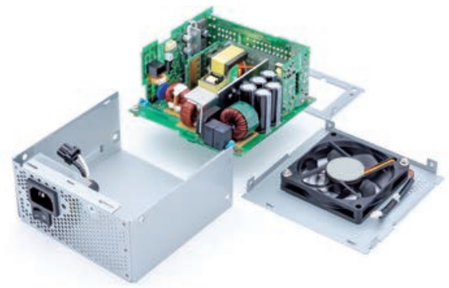
Full modular design

The full modular design allows the user to limit cable connections only to those that are required. The optimization of cable routing prevents interference to the internal airflow, facilitates the ease of assembly and enhances the maintainability.



Quieter operation

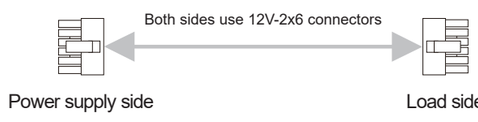
The larger fan provides sufficient cooling performance even at low rotation speeds, reducing operating noise while ensuring stable operation.



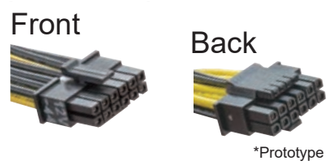
Safety standards compliance

- UL62368-1, CSA62368-1 (c-UL)
- CE marking, UKCA marking
- PSE compliant

12V 2×6 harness for SFXL-700P-S coming soon



[12V-2x6 connectors]



*Prototype

*Since the product is under development, the specifications and appearance shown here may change without notice.

High Reliability PSUs for PCs

Designed and made in Japan for convincing quality

Nonstop (with UPS function) PC PSUs

Uninterrupted power with no switching time during power outages

HNSP5-350P Series

Built-in lithium-ion battery inside ATX PSU

Continuous: 245 W
Peak: 346 W
Size: 150×85×140 (W×H×D) mm

Ideal for replacing existing ATX PSUs

Backup for blackouts is possible without installing an external UPS by replacing the ATX PSU already installed in the PC with the HNSP5-350P.

Battery installation space is not required Li-ion

The battery pack is built into the PSU, eliminating the need for an external battery.

Built-in battery in a housing

HPCSF-400P-X2B

Small-sized SFX PSU

Continuous: 310 W
Peak: 400 W
Size: 125×63.5×125 (W×H×D) mm

Compatible battery pack (5-inch bay complaint)	
BS28A-H350/2.5L	Ni-MH

HPCFX-350P-X2B

Small-sized 1U size Flex ATX PSU

Continuous: 245 W
Peak: 346 W
Size: 81.5×41×150 (W×H×D) mm

Compatible battery pack (5-inch bay complaint)	
BS28A-H350/2.5L	Ni-MH

HNSP9-520P Series

ATX PSUs with +24V/+48V output are also available

Continuous: 400 W
Peak: 520 W
Size: 150×86×140 (W×H×D) mm

Compatible battery pack (5-inch bay complaint)	
BS11A-P24/2.3L	Pb
BS10A-H24/2.0L	Ni-MH

mNSP3-450P Series

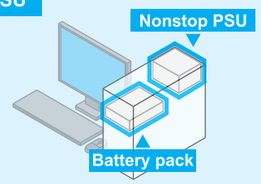
IEC60601-1 Ed. 2, Ed. 3 MOPP certified

Continuous: 300 W
Peak: 450 W
Size: 150×86×140 (W×H×D) mm

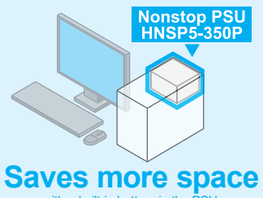
Compatible battery pack (5-inch bay complaint)	
BS11A-P24/2.3L	Pb
BS10A-H24/2.0L	Ni-MH

Save space by eliminating the external UPS

Nonstop PSU

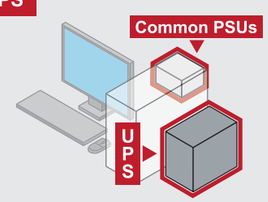


Saves space
by installing the battery inside the PC



Saves more space
with a built-in battery in the PSU.
Doesn't require a 5-inch bay

UPS



Additional space required

High-capacity PSUs for PCs supporting 12V-2×6 harness

HPCSA-1500P-E2H

High-capacity/high-efficiency ATX PSU for PC

Continuous: 1200 W Peak: 1500 W
Size: 150×85×200 (W×H×D) mm

Features

- Designed and made in Japan for reliable quality
- Low sound noise design by adopting a temperature-controlled variable-speed fan and semi-fanless mode
- Low noise (VCCI Class B for conducted emissions)

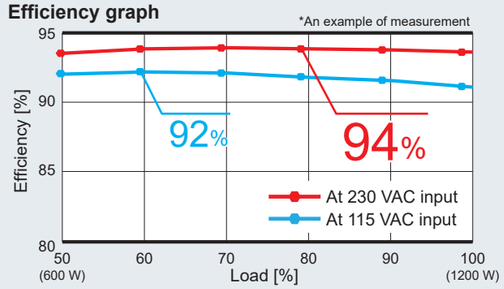
Output specification

Output voltage	+3.3 V	+5 V	+12 V	-12 V	+5 VSB
Continuous max. current/power	25 A	25 A	100 A	1 A	3 A
	Total 207.5 W		Total 1200 W		15 W
	Total 1200 W				
Peak current/power (within 5 s)	30 A	30 A	125 A	1.2 A	4 A
	Total 207.5 W		Total 1500 W		20 W
	Total 1500 W				

Reliability & high efficiency in one

Nipron's PSUs support highly efficient system operation while ensuring superb reliability for servers always running under a high load.

Efficiency graph



HPCSA-1000P-E2H

High-capacity ATX PSU with high reliability

Continuous: 822 W Peak: 1000 W
Size: 150×85×190 (W×H×D) mm

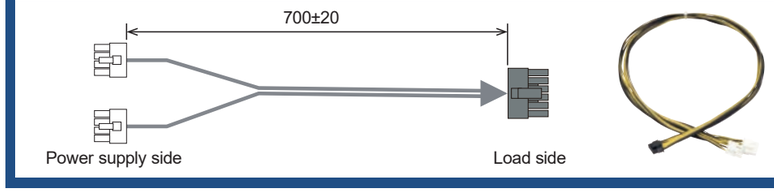
Features

- Designed and made in Japan for reliable quality
- Achieved low noise and low leakage current
  VCCI Class B for conducted emissions and leakage current
  0.22 mA or less (at 100 VAC)

Output specification

Output voltage	+3.3 V	+5 V	+12 V	-12 V	+5 VSB
Continuous max. current/power	25 A	25 A	66 A	0.4 A	3 A
	Total 207.5 W		792 W	4.8 W	15 W
	Total 822 W				
Peak current/power (within 5 s)	30 A	30 A	83.3 A	0.6 A	4 A
	Total 249 W		1000 W	7.2 W	20 W
	Total 1000 W				

12V-2x6 harness, WH-G160808-700



*Please use the 12V-2x6 harness with a compatible PSU.

Invitation to Exhibition

We will be exhibiting at POWER SUPPLY JAPAN.

TECHNO-FRONTIER 2026

41st POWER SUPPLY JAPAN

Period: Wednesday, July 15 to Friday, July 17
Venue: Tokyo Big Sight West Hall 1F Booth No.1-W10

We will be exhibiting at the 41st POWER SUPPLY JAPAN, held at Tokyo Big Sight from July 15 to 17. This event is the only exhibition in Japan dedicated to the power technology attracting the latest developments in the field of power conversion using power electronics, power conditioners, etc. and stable power supply utilizing UPS and capacitors.
At the Nipron booth, we will showcase our latest products and upcoming products currently under development. We will also present live demonstrations featuring our latest power supplies equipped with new functions, including an energy-saving mode and a power sharing function. In addition, a wide range of our standard power supply lineup will be on display, allowing us to propose the most suitable power solutions for your specific applications. Please do stop by the Nipron booth.

Scenes from last year

Featured Exhibits

NEW

High-capacity SFX PSU
SFXL-700P-S

Continuous: 575 W
Peak: 700 W

NEW

GPSU-800/1500P Series

Continuous: 800 W
Peak: 1200 W (100 VAC)/1500 W (200 VAC)
Output voltage: 24 V/48 V

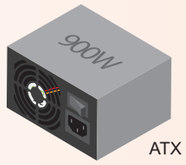
NEW

2 kW Constant Voltage Constant Current PSU
GPRA-2000 Series

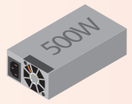
Rated: 2000 W typ.
Output voltage: 24 V/48 V/100 V
Other voltages will be available.

More upcoming products on display

New PC PSUs and a battery pack



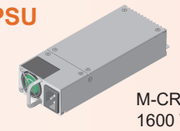
ATX



Flex ATX

Battery pack
for backup
during blackout

Server PSU



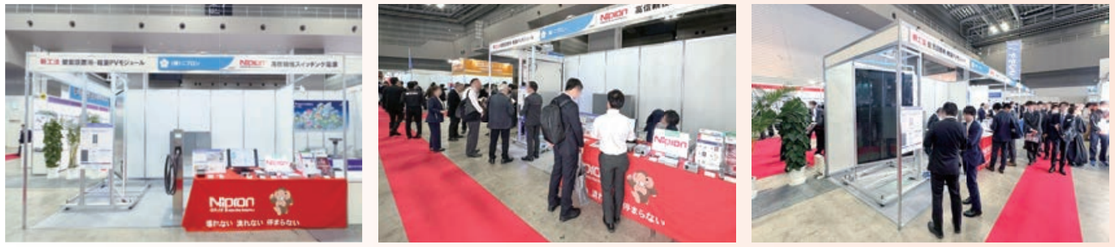
M-CRPS-complaint
1600 W PSU

We will also present live demonstrations showcasing the latest features of Nipron PSUs.

* Since the product is under development, the specifications and appearance shown here may change without notice.

Exhibition Report

JUMBO BIKKURI FAIR



Nipron participated in the 52nd JUMBO BIKKURI FAIR held for two days on April 17 (Fri.) and 18 (Sat.), 2026, at Tokyo Big Sight. The exhibition is a general trade fair in the construction and manufacturing industries participated by approx. 200 dedicated manufacturers and attracted visitors from many corporations and businesses.

At the Nipron booth, the wall-mount, lightweight & Japan-made chalcopyrite PV module made by the use of new installation method, the “multi-EV charging system” for space-saving installation and the “PV Maximizer” facilitating enhanced efficiency of photovoltaic power generation were presented as the main attraction. There were visitors especially interested in the chalcopyrite PV module produced in Japan and we were able to exchange views with them.
Concerning power supply related products, we exhibited various product lineups of industrial switching power supply units, including PSUs for PCs and single output power supplies. Backup power supplies effective for addressing power failures were also demonstrated.

This exhibition has given us an opportunity to introduce a wide range of Nipron products and activities. We wish to express our sincere appreciation to visitors to our booth.

The Nipron Story, as told by our Chairperson

Buckling down to the energy issue!

Recently, all eyes have been on how the negotiations turn out regarding the U.S.-Iran dispute over the blockade of the Strait of Hormuz, throwing global politics and economies into turmoil and causing ongoing instability. Amid these circumstances, as soon as news broke that President Trump had signed a memorandum of understanding with Iran to end hostilities, the markets reacted strongly; the Dow Jones Industrial Average and the Nikkei Stock Average surged, with the latter surpassing the 70,000-yen level for the first time in history. However, uncertainty persists and the cost of living keeps rising.

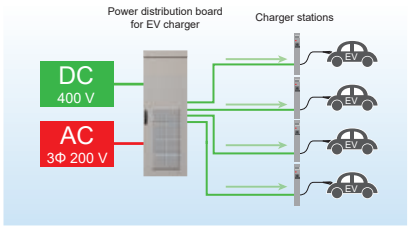
At Nipron, we are continuously struggling to cope with the wave of price increases for all components, but compared to the price hikes of four or five years ago, we feel more unfazed this time. The point I want to make here is: How much longer will we keep relying on underground resources with limited reserves, such as oil? I believe that the huge energy demand should be satisfied by replacing oil with solar energy, a permanent energy source, converting it into electrical energy and storing it in rechargeable batteries for use.

Since it is difficult to change the current situation immediately, we need to switch to alternative energy sources in a planned manner, going through the steps in order. First and foremost, switching from gasoline-powered vehicles—which account for a high share of oil demand—to electric vehicles (EVs) is the top priority, and the transition is already underway.

Currently, EV chargers are supplied with commercial AC electricity from respective electric utilities. Much of this commercial electricity is generated by thermal power plants, which burn fossil fuels to drive steam turbines to generate electricity; this type of power ultimately remains dependent on fossil fuels and cannot serve as an alternative energy source.

Nipron offers EV solutions that maximize the use of renewable energy by combining our PV Oasis, a solar energy storage system utilized for self-consumption, with EV chargers. This approach increases self-sufficiency in renewable energy, contributing to reducing electricity costs as well as developing and pursuing an effective business continuity plan (BCP).

Paving the way for the future through the use of sustainable energy, not conflicts over resources—We kindly ask for your consideration of Nipron's renewable energy solutions, which are best suited for today's world.



■Concept of multi-EV charging system

■Multi-EV charging system in Hanshin Factory

Setsuo Sakai
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