

Nipron Wave Vol.71

The Metaversells Bringing a New Future

Highlights

1 Renewable energy products

Introducing DC-powered renewable energy edge data centers, contributing to carbon neutrality. Solar Carport EV charging stations can EV charge with 100% renewable energy.

2 New and featured products

Introducing the high-capacity ATX power supply with increased demand and single-output power supplies with high reliability and high capacity.

DC-powered renewable energy edge data centers can help drive the development of a digital society and moves toward carbon neutrality

With the advancement in the metaverse, DX and automated driving technologies, the b data center market continues to grow rapidly. With it, the power consumption is also increasing drastically and that of data centers in Japan is estimated to be 14 TWh in 2018 and predicted to be 90 TWh in 2030 and 12,000 TWh in 2050. On the other hand, the power supply in Japan is tight and the construction of new thermal power plants is difficult due to the requirement to achieve carbon neutrality. There is a concern that the shortage of power would be detrimental to people's life and industries unless a stable power supply system is constructed quickly. Nipron will offer solutions to this proposition of achieving carbon neutrality while developing new data centers from multiple perspectives



DC grid-type renewable energy storage system ideal for DC-powered renewable energy edge data centers

Introduction of renewable energy

- Reduction of CO₂ emissions
- Local production for local consumption of energy

Introduction of DC power supply

- Reduction of power conversion loss
- Improvement of reliability



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Benefits of DC power supply



Lots of energy loss and the system tends to be complicated...



DC power supply is highly efficient and reliable for renewable energy utilization.

Configuration example of a DC-powered renewable energy edge data center

- panels without grid connection.
- ③ With a power storage system, stable power is provided even with a momentary power failure and blackout on the grid. Even in cases of blackouts, the photovoltaic power can reduce the loss of stored power and address prolonged blackouts to realize a highly resilient data center.

lata center	
	AC DC
	Server rack
	Small Server
	DC Motherboard
V Other loads	

1 Photovoltaic power provided for container-type edge data centers and carports 2 DC devices are used whenever possible and DC power is supplied from solar

Bringing about a carbon-neutral society through its DC control technologies

Solar Carport EV Charging Station

The system realizes a high-efficiency EV charging with 100% renewable energy by charging stationary rechargeable batteries using the photovoltaic DC power without converting it to AC and charging EVs with the photovoltaic power and the power discharged from the batteries.

EV charging with 100% renewable energy

DC supply

In-house consumption

of renewable energy

BCP measures

Common EV charging stations

Because these systems are based on the AC power, many DC/AC conversions are required, resulting in a large loss of power due to conversion. Also, it is not possible to charge EVs in an event of a blackout because the PCS will stop working.



DC grid EV charging station

Because the system is basically a DC power system, the photovoltaic power and rechargeable batteries can be connected without a power conversion and this makes it a high-efficiency system with a smaller number of AC/DC conversions. Even in an event of a blackout, EVs can be charged from the photovoltaic power and rechargeable batteries.



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Enables inter-system power interchange

If the PV Oasis was introduced in multiple buildings, excess power can be made available for other systems, improving the efficiency of operation.



Quick charging of multiple EVs at the same time without a cubicle

Even for a charging operation (quick charge or simultaneous multi-unit charging) with an aggregate capacity of 50 kW or larger, a low-voltage power feed system (of capacity less than 50 kW) will suffice with the assistance of solar power and/or a stationary rechargeable battery. For the low-voltage power feed, the installation of an electrical cubicle and a contract with a licensed electrical service engineer is not required and, thus, it can be introduced and maintained easily.



Provides power generated by the sun even in an emergency.

The Solar Carport serves as a shelter, providing electricity from photovoltaic power generation and rechargeable batteries in a wide-area power failure (blackout) caused by a natural disaster. It serves as a renewable energy power plant and EV charging station in ordinary times and as a shelter during a disaster if required by the national or local government.

Blackout + Sunny weather

Power generated from the solar cells or from batteries can be supplied to EV charge and particular loads even if there is a blackout.







Increasing demand for large-capacity ATX power supplies

Today, the number of applications like GPU servers, deep-learning, video editing, machine vision and metaverse requiring high-performance CPUs and GPUs is increasing. This brings the power supply unit with a large capacity to the center of attention. In addition, it is also important to provide a stable power under any circumstance. By undergoing a thorough evaluation test, Nipron's ATX PSUs offer a high reliability to survive the relentless 24/7 prolonged operation at the rated power.

High-capacity ATX power supply with excellent performance & durability

HPCSA-1500P-E2S Peak: 1500W Continuous: 1200W

Reliability and high efficiency in one

Thanks to the design optimized for a high load, Nipron's PSUs support the highly efficient system operation while ensuring a superb reliability for GPU servers always running under a high load.



Quality & reliable craftsmanship

Taking advantage of its unique thermal analysis simulation, Nipron thrives in offering optimum arrangement of components in its product design to attain high quality and high reliability. All products come with the well-established marking of safety and security ... "Made in Japan."

12VHPWR cable



Power specifications

The peak power of 1500 W, exceeding the maximum continuous capacity, is available.

MAIN	N/HD			12	2V			Ν	MAIN/HD	
+3.3V	+5V	+12V1	+12V2	+12V3	+12V4	+12V5	+12V6	+12V7	-12V	+5VSB
25A	25A	24A	24A	24A	24A	24A	24A	24A	1A	3A
Total 2	Total 207.5W Total 1200W					15W				
Total 1200W										
30A	30A	32A	32A	32A	32A	32A	32A	32A	1.2A	4A
Total 207.5W Total 1500W								20W		
Total 1500W										
0A	0A	0A	0A	0A	0A	0A	0A	0A	0A	0A
150W×85H×200D (mm)										
	MAIN +3.3V 25A Total 2 30A Total 2 0A	MAIN/HD +3.3V +5V 25A 25A Total 2∪7.5W 30A 30A Total 2∪7.5W 0A 0A	MAIN/HD File +3.3V +5V +12V1 25A 25A 24A Total 207.5W 5 30A 30A 32A Total 207.5W 5 0A 0A 0A	MAIN/HD I +3.3V +5V +12V1 +12V2 25A 25A 24A 24A Total 207.5W I I I 30A 30A 32A 32A Total 207.5W I I I 0A 0A 0A 0A 0A 0A 0A 0A	MAIN/HD Image: Im	MAIN/HD Image: Im	MAIN/HD 12V 12V $43.3V$ $45V$ $412V1$ $412V2$ $412V3$ $412V4$ $412V5$ $25A$ $25A$ $24A$ $24A$ $24A$ $24A$ $24A$ Total 207.5W $U = V = V = Total + 200W$ $Total + 120V = V = Total + 200W$ $30A$ $30A$ $32A$ $32A$ $32A$ $32A$ $32A$ $32A$ $30A$ $30A$ $32A$ $32A$ $32A$ $32A$ $32A$ $32A$ $Total 207.5W$ $U = V = V = V = V = V = V = V = V = V = $	$ \begin{array}{ c c c c c c c c c c } \hline & & & & & & & & & & & & & & & & & & $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

Supports 6ch, 12V outputs for CPU/GPU



The 12VHPWR cable comes with a 12+4Pin connector, which is a new auxiliary power cable capable of supplying the maximum power of 600 W to an expansion board supporting the PCI Express 5.0 standard.

Currently, Nipron is preparing a 12VHPWR cable that can be connected to PSUs like HPCSA-1500P

Connector pin allocation

Pin signal	Output (signal)	Pin signal	Output (signal)	
1	+12V3/V4	7	COM]
2	+12V3/V4	8	COM) (
3	+12V3/V4	9	COM	1
4	+12V3/V4	10	COM	1
5	+12V3/V4	11	COM	1
6	+12V3/V4	12	COM	Pin1
S1	CARD_PWR_STABLE	S3	SENSE0	Pir
S2	CARD_CBL_PRES#	S4	SENSE1	1





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High-capacity ATX power supply with 80PLUS SILVER certified and 1000W peak

HPCSA-1000P-E2S

Peak: 1000W Continuous: 822W

Features

- 80PLUS SILVER certified
- Noise reduction by adopting a temperature-controlled, variable-speed fan
- Minimum load current 0A for all outputs
- Achieved low noise and low leakage current
- VCCI Class B for conducted emissions and, leakage current
- 0.22mA or less (at 100V AC).

Supports 3ch, 12V outputs for CPU/GPU



High-capacity ATX power supply with high-reliability and 700W peak

HPCSA-700P Series

Peak: 700W Continuous: 600W

Features

Reducing the amount of heat generation with a high-efficiency circuit Noise reduction by adopting a temperature-controlled,

variable-speed fan

Minimum load current 0A for all outputs

Achieved low noise and low leakage current VCCI Class B for conducted emissions and, leakage current 0.1mA or less (at 100V AC).

Supports 3ch, 12V outputs for CPU/GPU







Output specification

	MAI	MAIN/HD		12V			MAIN/HD		
Output voltage	+3.3V	+5V	+12V1	+12V2	+12V3	+12V4	-12V	+5VSB	
Continuous	25A	25A	18A	18A	18A	18A	0.4A	3A	
max. current/	Total 2	Total 207.5W Total 792W					4.8W	15W	
power	Total 822W								
Peak current/	30A	30A	25A	25A	25A	25A	0.6A	4A	
power	Total 249W Total 1000W						7.2W	20W	
(within 5 s)	Total 1000W								
Min. current	0A	0A	0A	0A	0A	0A	0A	0A	
Size		150W×85H×190D (mm)							



Output specification

	MAIN/HD		12V			MAIN/HD		
Output voltage	+3.3V	+5V	+12V1	+12V2	+12V3	-12V	+5VSB	
Continuous	16A	16A	18A	18A	18A	1A	2A	
max. current/	Total	90W		Total 600W				
power	Total 600W							
Peak current/	20A	20A	25A	25A	25A	1A	3A	
power	Total	Total 120W Total 700W					15W	
(within 5s)	Total 700W							
Min. current	0A	0A	0A	0A	0A	0A	0A	
Size								

ATX power supply with built-in lithium-ion battery for power outage backup

HNSP5-350P Series Peak: 346W Continuous: 245.4W

Space-saving by no space for battery installation

It saves space by eliminating the need for an external battery and UPS since battery pack is built into the housing.



Other features

- The shutdown control signal is compatible with RS232C A USB model is also being developed
- Safety design prohibiting screws entering the housing in replacing the battery
- Minimum load current 0A for all outputs
- Noise reduction by adopting a temperature-controlled, variable-speed fan
- Double-sided PCB with plated through hole ideal for industrial use



While the power is normally supplied through the AC power grid, in case of a drop, in the AC input voltage or a blackout, the backup power kicks in safely by switching to the built-in battery without any interruption.

Discharge time (an example measurement)



Specification

	MAI	N/HD	12V	MAIN	N/HD			
Output voltage	+3.3V	+5V	+12V1	-12V	+5VSB			
	12A	12A	20A	0.5A	1A			
Continuous	Total	66.4W	240W	240W 6W				
power		Total 2	40.4W		500			
		Total 245.4W						
	22A 22A		28A	0.5A	2A			
Peak current/	Total	113W	336W	336W 6W				
(within 5 s)	Total 336W							
· · · ·	Total 346W							
o	12A	12A	16A	0.5A	2A			
Current/power	Total	66.4W	192W	6W	10\\/			
operation	Total 200W							
Min. current	0A	0A	0A	0A	0A			
Size		150V	V×85H×140D	(mm)				

Pick out Nonstop ATX power supply

Power supplies with +24V/+48V output are available

HNSP9-520P Series

Peak 520W Continuous 400W

	Compatible battery	packs
	BS11A-P24/2.3L	Lead-acid battery pack
	RBS02A-P24/2.3L	Lead-acid battery pack
	BS10A-H24/2.0L	Nickel-metal hydride battery pack
	BS22A-H24/2.0L	Nickel-metal hydride battery pack
Ľ.	E	

Example of backup (an example measurement) BS10A-H24/2.0L Load 100W: about 17 min

Small-sized SFX power supply

HPCSF-400P-X2B

Peak: 400W Continuous: 310W

Compatible battery packs BS28A-H350/2.5L Nickel-metal hydride battery pack

Example of backup (an example measurement)

BS28A-H350/2.5L Load 220W: about 3 min 18 s

Small-sized 1U size Flex ATX power supply

HPCFX-350P-X2B

Peak[.] 346W Continuous[.] 245W Compatible battery packs BS28A-H350/2,5L Nickel-metal hydride battery pack

Example of backup (an example measurement) BS28A-H350/2.5L Load 184W: about 7 min 57 s

Advantages of Nonstop power supply Save space by eliminating the external UPS

Our proprietary charging/discharging technology helps realize an uninterruptible power backup system simply by connecting a battery pack to a power supply unit that supports the technology. On the other hand, the new HNSP5-350 series PSUs incorporate batteries inside the ATX PSU formfactor to offer an uninterruptible power backup function without a connection of additional battery pack. The installation of a battery pack inside the housing makes it an optimum choice for PCs with the 5 inch bay occupied and replacing existing ATX PSUs.









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Single-output power supplies with high reliability, high efficiency and peak power

	Board-type	e, single-out	put power s				
	FZP-040	mFZP-075	UZP-120	OZP-120	UZP-150	OZP-200-E	UZP-220
Continuous output (W)	30–39.6	50–75	100.8–120	120–122.4	150–153.6	132-201.6	180-220.8
Peak output (W)	40–60	75–150	200.4-201.6	180–216	400.8-401.4	198-403.2	400.8-401.4
Output voltage (V)	5,12,15,24	5,12,15,24	12,24	12,24	12,18,24,48	3.3,5,12,15, 24,30/36 ^{*1} ,48	12,18,24,48
Size W×H×D (mm)	50×26×87.5	55×28×133	62×27×155	73×35×180	75×35×160	73×41×222	75×36×160
	1/100					1/10	
	mUZP-220/520P	OZP-240/600P	OZP-350	UZP-400	UZP-400/1200P	UZP-600	11
Continuous output (W)	220.8	201.6/240 (at 100/200V AC)	300–352.8	320.4-403.2	402-403.2	600–601.2	11/11/
Peak output (W)	520.8	400.8-403.2/600 (at 100/200V AC)	504-601	504-601.2	1200-1202.4	1200-1202.4	

12,24,36,48

84×45×180

24 30 36 48

84×45×180

24,30,36,48

127×44×228.6

12,15,24,30,36,48

95×47×222

				and the second		Paper	man /				
1		Single-out	tput power	supplies in	upplies in one unit / DIN-rail-compatible power supplies						
GPSA	UDP	GPSA-360	GPSA-600	GPSA-1000	GPSA-1500	GPSA-5000	UDP-120	UDP-180	UDP-240		
Continuou	us output (W)	360	600–601.2	907.2/1008 (at 100/115V-240V AC)	1056–1104 (at 100V AC) 1512–1632 (at 200V AC)	4800–4992 ^{*2}	120	180	240		
Peak o	output (W)	480–499.2 (at 100V AC) 480–600 (at 200V AC)	960–1200 (at 100V AC) 1200–1440 (at 200V AC)	1188–1200 (at 100V AC) 1320/2016 (at 115V/240V AC)	1320 (at 100V AC) 2040–2112 (at 200V AC)	6000	201.6/300 (at 100/200V AC)	201.6/300 (at 100/200V AC)	400.8		
Output	voltage (V)	12,24	12,24,36,48	24,48	24,48	48,96	24	24	24		
	×H×D (mm)	41×128×230	61×128×240	61×128×240	82×128×250	198×125×314	35×124×117.5	35×124×117.5	41×124×117.5		
		Nº 8 B	31.7	19	208 6000	1111	*1 The 36V output is adjustable t	o 30V with a variable resistor. *2	With 3-phase 180-240V AC input		



24

75×36×160

24 48

73×41×222

Continuous:40vv (5V/30w) Peak: 60vv (5V/40w) Output voltage: 5V, 12V, 15V, 24V Input voltage: 85-264V AC Size (W×H×D): 50×26×87.5mm Safety standards: UL62368-1, CSA C22.2 NO.62368-1 certified, UKCA/CE marking (IEC62368-1)

The power supply unit clears VCCI Class B for conducted emissions

No need for an external noise filter, helping to save associated work and costs.



Output voltage (V)

Size W×H×D (mm

FZP-040-24 Measurement condition Input: 100V AC Output: rated load (an example measurement)



Measures against momentary power failure (only for FZP-040-**-JBH)

Connecting capacitor units creates a backup for momentary power failure by extending the output holding time. The output holding time can be further extended by connecting capacitor units in parallel.



FZP-040-**-JBH Capacitor unit CB03B-EC400/801F

Other features

- Supports a peak approx. 150% higher than the continuous power
- Equipped with a variable resistor to adjust the output voltage (only for FZP-040-**-JBH)
- Wide operating temperature range at ambient temperatures from -10°C to 70°C.

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Medical standards certified board-type, single-output power supplies

Continuous: 75W (5V/50W) Peak: 150W (5V/75W) Output voltage: 5V, 12V, 15V, 24V Input voltage: 85-264V AC Size (W×H×D): 55×28×133mm Medical standards IEC60601-1 Ed.3.1 (MOPP, MOOP) certified Safety standards: IEC/EN60601-1 (Ed.3.1, MOPP, MOOP), IEC/EN62368-1(2nd)(CE marking), UL ANSI/AAMI ES60601-1(Ed.3.1), UL/cUL62368-1(Ed.2), CCC:GB4943.1 certified

The power supply unit clears VCCI Class B for conducted emissions

No need for an external noise filter, helping to save associated work and costs.



mFZP-075-12 Measurement condition Input: 100V AC Output: rated load (an example measurement)



Medical standards certified board-type, single-output power supplies

Continuous: 220W Peak: 520W

Output voltage: 24V (5VSB)

Input voltage: 85-264V AC Size (W×H×D): 75×36×160mm

Medical standards IEC60601-1 Ed.3.1 (MOPP)

Safety standards:

Medical standards IEC60601-1 Ed.3.1 (MOPP) certified

The power supply unit clears VCCI Class B for conducted emissions

No need for an external noise filter, helping to save associated work and costs.



Measurement condition Input: 100V AC Output: rated load (an example measurement)

9



Backup for momentary power failure

Connecting capacitor units creates a backup for momentary power failure by extending the output holding time. Doing so contributes to the improved reliability of embedded devices.

Other features

- Low leakage current 0.13mA typ at 100V AC and 0.25mA typ at 200V AC (mFZP-075-24, an example measurement)
- Supports a peak approx. 200% higher than the continuous power The unit can supply power of 200% of the continuous power for the predefined time (5s) (except for the 5V type).
- Equipped with a variable resistor to adjust the output voltage
- With chassis or with chassis and cover versions are available



No need to prepare a separate power supply for standby output, which

contributes to small-sized design and cost reductions. Supports standby output (5V/1.5A)

Other features

- Low leakage current 0.057mA typ at 100V AC and 0.118mA typ at 200V AC (mUZP-220/520P-24S05, an example measurement)
- Supports a high peak approx. 230% higher than the continuous power The unit can supply power of 230% of the continuous power for the predefined time (5s).
- Equipped with a variable resistor to adjust the output voltage
- With chassis or with chassis and cover versions are available

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UZP-400 Series

Continuous: 400W (12V/320W) Peak: 600W (12V/500W) Output voltage: 12V, 24V, 36V, 48V Input voltage: 85-264V AC Size (W×H×D): 84×45×180mm Safety standards: UL(cUL)62368-1 certified, CE marking, UKCA marking

NEW

Newly screw terminal blocks are added

The PSU comes with nylon connectors or newly screw terminal blocks as I/O terminals. * UZP-400-A24-TBH



Backup for momentary power failure/blackout

Connecting capacitor units/battery packs creates a backup for momentary power failure/blackout by extending the output holding time.

Capacitor unit for momentary power failure •CB03A-EC400/801F Nickel-metal hydride battery pack for momentary power failure/blackout •BS28A-H350/2.5L



Output voltage: 24V, 30V, 36V, 48V Input voltage: 170–260V AC (240–400V DC can be input) Size (W×H×D): 84×45×180mm Safety standards: UL(cUL)62368-1 certified, CE marking, UKCA marking

Supports a high peak power

High peak power support model, enabling peak output (up to three times the continuous rated output) for a duration of up to 10 seconds.



Clears VCCI Class B for conducted emissions

The power supply unit clears VCCI Class B for conducted emissions. No need for an external noise filter, helping to save associated work and costs.



The power supply unit clears VCCI Class B for conducted emissions. No need for an external noise filter, helping to save associated work and costs.

Other features

- Supports a peak power
- The unit can supply power of 150% of the continuous power (10s). Low leakage current 0.05mA typ at 100V AC and 0.11mA typ at 200V AC
- (UZP-400-A24, an example measurement)
- Equipped with a variable resistor to adjust the output voltage
- Equipped with remote ON/OFF feature
- With chassis or with chassis and cover versions are available



Other features

- Low leakage current 0.12mA typ at 230V AC and 0.14mA typ at 240V AC (UZP-400/1200P-A24, an example measurement)
- Smaller size with higher capacity Compared with Nipron's past models of the OZP-350 series, offers a 50W increased continuous capacity and a 30% smaller size.
- Equipped with a variable resistor to adjust the output voltage
- Equipped with remote ON/OFF feature
- With chassis or with chassis and cover versions are available



Continuous: 600W Peak: 1200W Output voltage: 24V, 30V, 36V, 48V Input voltage: 85-264V AC Size (W×H×D): 127×44×228.6mm Safety standards:

UL(cUL)62368-1 certified, CE marking, UKCA marking

Supports a high peak power

UZP-600 series can supply power of 200% per of the continuous power for the predefined time (5s).



I/O terminal blocks for different usage scenarios available

The PSU comes with screw terminal blocks (horizontal/ vertical) or dividable nylon connectors (horizontal/ vertical) as I/O terminals.





Horizontal connector type co

connector type

Horizontal screw Vertical screw terminal block type





UDP-240-A2 Continuous: 240W Output voltage: 24V

Input voltage: 85-264V AC Size (W×H×D): UDP-120/180: 35×124×117.5mm UDP-240: 41×124×117.5mn Safety standards:

P-120/180: UL(cUL)62368-1, UL508 compliant UDP-240: UL(cUL)62368-1, UL508 certified, CE markin

Backup for momentary power failure (capacitor units)

This product can extend the output holding time of the UDP series and take measures against abnormal input such as instantaneous power failure. (Compatible models: UDP-***-A24-*B*)



Backup for blackout/momentary power failure (backup units)

This product can realize uninterruptible power backup during blackouts of the UDP series. (Compatible models: all UDP series of 24V type)



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Other features

- Smaller size of 5×9 inches
- Comes with a +12 V standby output
- Equipped with blackout detection signal and remote ON/OFF feature
- Momentary power failures can be addressed by connecting capacitor units
- The built-in arrestor to avoid/mitigate the risk of lightning damage Common mode: actual performance ± 8kV
- Supports output for fan (option: UZP-600-A**-**F)
- Supports service life indicator (option: UZP-600-A**-**X)
- With cover or with cover and front panel versions are available



Other features

- Clears VCCI Class B for the conducted emissions without an external noise filter
- Wide operating temperature range from -20°C to 70°C (derating required)
- Able to start-up in a -40°C environment
- Coated PCB as standard
- Equipped with a variable resistor to adjust the output voltage
- The built-in arrestor to avoid/mitigate the risk of lightning damage Common mode: actual performance ± 8kV
- Service life indicator models are also available Warnings of the deterioration of the electrolytic capacitor are provided by H/L signals and LEDs.
- Available for European terminal type or screw terminal block type as I/O terminals

Invitation to Exhibition

38th TECHNO-FRONTIER

TECHNO-FRONTIER 2023

Nipron will participate in TECHNO-FRONTIER 2023 held for three days from July 26 to 28 at Tokyo Big Sight. This event is the only exhibition in Japan dedicated for 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, many PSUs from the standard product lineup will be displayed. In terms of product demonstrations, which continue to be the focus of many visitors, we plan to offer a demonstration of blackout solution with a PC incorporating the lithium-ion battery built-in ATX PSU HNSP5-350P, a demonstration of momentary power failure solution with the DIN rail compatible capacitor unit DS01A, and a demonstration of blackout solution with the lithium-ion battery pack DS02A. Also included are exhibition of renewable energy system products and proposals of solutions aiming at the carbon neutrality. Do come visit Nipron booth if you happen to be around.



Productivity Improvement **Presentation**

Productivity Improvement Presentation for Engineering Departments

On January 17, a conference for Productivity Improvement Presentation by the engineering departments was held at Miyako Hotel Amagasaki. A total of nine teams participated in the competition, making presentations on the kaizen activities undertaken in the previous year and their results. Upon a strict and fair examination, the top three teams were awarded.

Gold Prize: Digital & GP Development Department + Software Development Department

Presentation theme "Productivity improvement in the development of control system for the solar carport integrating various power facilities" Silver Prize: 1st R&D Department

Presentation theme "Automation of component list editing with VBA programming

Bronze Prize: TTC R&D Department

Presentation theme "Development of FZP-040 Series - Clarification of tasks & improvement of operational efficiency"

The engineering departments aim to enhance the customer satisfaction level by continuing their kaizen activities and developing products required by the customers.



Gold Prize: Digital & GP Development Department + Software Development Department



各種電力設備を統合した

ーカーボートシステム制御阿発に おける生産性改善成業報告





Bronze Prize: TTC R&D Departmen



Received a letter of appreciation and a commemorative gift from Anritsu Corporation

Nipron was awarded the Supplier's Award by Anritsu Corporation being recognized for its contribution to the business development of Anritsu Group, Nipron President Futami attended the meeting and received a letter of appreciation and a commemorative gift from Anritsu Corporation. Anritsu Corporation offers products and services advancing the safe, secure and rich society mainly in the fields of information, communication, food and medicine with its core competence of "measuring" techniques.

Nipron has a long history of business with Anritsu Corporation, making efforts to improve its product quality, delivery and services and, most recently when there was a difficulty in obtaining components, Nipron worked hard to minimize the impact. Nipron considers this award as a demonstration of high recognition of our undertakings and takes it as a great honor Taking this opportunity, Nipron pledges to join forces to continue satisfying customers' needs and offering quality products and services.



Construction of the Mie Smart Dream Factory

Held the groundbreaking ceremony and started the construction

On January 26, the groundbreaking ceremony was held for the construction of Mie Smart Dream Factory, of which the operation is expected to start before the end of September in Taki-town, Taki-gun, Mie Prefecture. For the Mie Smart Dream Factory, the building will be completed within August and the operation is set to start in September. In view of carbon neutrality, it aims to achieve the 90% self-sufficiency of renewable energy by the introduction of Nipron's "DC grid type renewable energy storage system (PV Oasis)" without relying on the green power certificate for the power consumption of factory and, at the same time, it also works as a BCP solution, making it possible to operate the factory with the power stored in rechargeable batteries in an event of a blackout. While offering safe and guality products timely, Nipron will undertake actions to enhance its competitiveness in line with the customers' needs.

A factory that gets 90% or more of



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Left: Mr. Tatsuva Futami, President & Representative Director, Nipron Co., Ltd. Right: Mr. Takeki Takeuchi, General Manager, Global Procurement Operation Div., Anritsu Corporation





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Spring has arrived and the cherry blossoms are in full bloom. On April 3, 2023, again this year, we held an initiation ceremony for new employees. The ceremony welcomed 12 university and graduate school graduates (2 women and 10 men) and 14 high school graduates (12 women and 2 men), young recruits who aspire to achieve their fullest potential. I look forward to seeing them playing an active role in endeavors to create "Nipron with enduring vitality," as set forth in the Nipron's Charter.

At the initiation ceremony, I delivered a congratulatory message as follows: "In line with our Corporate Principle of 'doing interesting work,' I ask you to have ambition, never lose a desire to improve yourselves, and keep on taking 'challenges' toward your dreams and goals. Most of our life will be spent at work. If so, it is important to think about and devise ways you can 'do interesting work.' You only live once. Whether or not you can live your life in an interesting way will be critical for your feeling of happiness. I urge you to spend each day from today onward studying to enhance your own value and making an effort to build up your character and achieve personal progress."

Changing the subject, the Covid-19 pandemic that rocked the whole world for three years finally seems to have subsided. As a result, however, it has brought about many significant changes in, for example, work styles, which accelerated the shift to working from home. I am afraid that this trend will steer businesses toward the so-called job-based (specified) employment pattern, in which only those with high skills and experience appropriate for the job are employed. While this may be welcomed by those with high competencies and skills, ordinary employees are likely to go through a tough time...

Amid the economic stagnation, we are trying to get out of the Covid-19 shock, but beyond simply returning to the pre-pandemic state, we can seize this opportunity to create innovations. I believe that



this will be an opportunity for companies and people who can cope with the change of the times to move wisely and flexibly. The same applies to the national government. Whether or not a crisis can be turned into an opportunity depends on the wisdom and ability of politicians and those who run the country... but here the question arises as to whether we really have such people in Japan.

I imagine that the Bank of Japan (BOJ) is purposely leaving the yen weak, but for what? Is it an adverse effect of the prolonged zero-interest-rate policy? With the expiration of the 10-year long tenure of office of Mr. Kuroda, ex-Governor of BOJ, his successor Mr. Ueda, the new Governor, expressed his intention to continue the monetary easing policy; is this a policy of lowering the value of the yen? I am not sure if the real purpose is to support the economy, as explained officially. If the purpose is to let the yen weaken, we still have strong industries and companies that can compete with the rest of the world, so the government may be thinking of supporting the bolstering of export competitiveness and rebuilding the economy. However, since Japan now relies on imports for many of its daily necessities (food, energy, etc.), the weak yen has led to a continued huge trade deficit, and it really makes me worry when I hear the concerns in developed Western countries about the collapse of the BOJ, or Japan's central bank (concerns that the BOJ will lose its function of adjusting market interest rates because it has been buying excessive amounts of government bonds to suppress the rise in long-term interest rates). Am I the only one who worries about whether the Kishida administration which is focusing on populist measures can handle the economy? In the nationwide local elections held on April 9, the Nippon Ishin no Kai (Japan Innovation Party) made a major breakthrough, suggesting that many Japanese citizens have a sense of crisis about the current politics. I was encouraged by the strength of Osaka Governor Yoshimura's words that the Nippon Ishin would change the national politics from the local level.

Setsuo Sakai April 2023

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