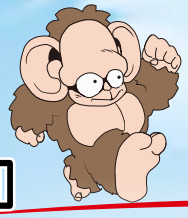
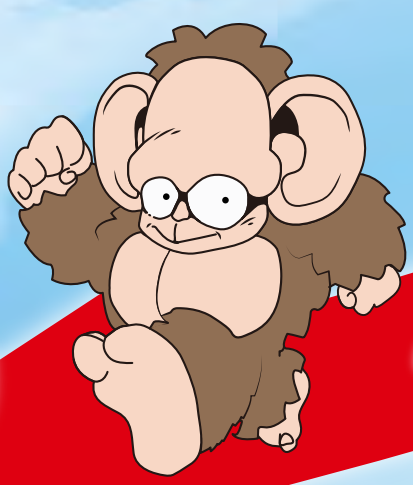
Nipron
GAZE into the future



1970

Nipron Wave
Vol.61

50th ANNIVERSARY
2020



50 YEARS OF MARATHON TO THE FUTURE

This is the highlight

1. “Products of the 50th anniversary”
   New products lineup that celebrates the 50th anniversary
2. Renewable energy for BCP measures
   - Announcing the "Zero Energy Room," which enables in-house power consumption with one room!
   - Introduce the solar carport which completed in head office

Front cover illustration by Terumitsu Miyamoto

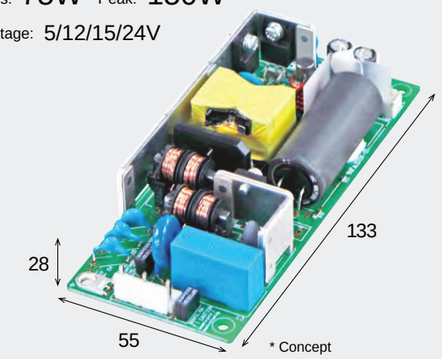
NEW mFZP-075 Series

Medical standard IEC60601-1 Ed.3.1 approved

Small PCB type single output power supply

Continuous: 75W Peak: 150W

Output voltage: 5/12/15/24V

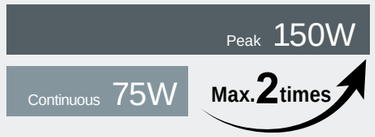


Small, large capacity and high peak power achieved

Support twice the peak load (except 5V type)

Peak power is available for 5s. Optimum for equipment that requires inrush current such as motors.

■mFZP-075-12, 15, 24



Specifications

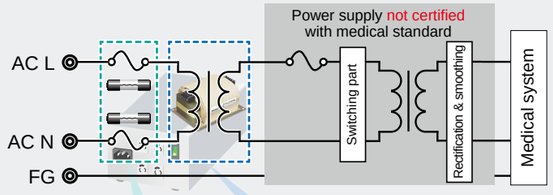
mFZP-075-		5	12	15	24
Output voltage		+5V	+12V	+15V	+24V
Continuous current		10A	6.25A	5A	3.13A
Continuous power		50W	75W	75W	75W
Peak current (within 5 s)		15A	12.5A	10A	6.25A
Peak power (within 5 s)		75W	150W	150W	150W
Efficiency	100VAC	80%typ	84%typ	85%typ	86%typ
	200VAC	82%typ	86%typ	87%typ	88%typ
Input voltage		85-264V AC (worldwide range)			
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 expected to be approved			

Other features

■**Medical standard IEC60601-1** (MOPP, MOOP) **is expected to be approved.**
■**The power supply unit clears VCCI ClassB for the conducted emission.**
■**With chassis or with chassis and cover type lineup**
■**A variable resistor for adjusting output voltage provided** (adjustable rage: ± 10%)
■**Possible to backup for instantaneous power failure** (optional)

Benefits of using certified power supplies in medical equipment

A power supply is not certified with medical standard



A safety standard certified fuse or a breaker is required for both L and N lines.

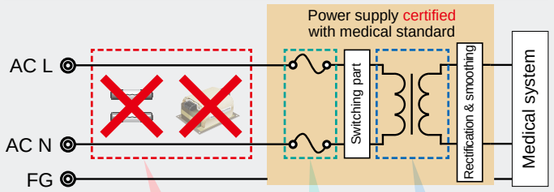
An isolation transformer complaint to IEC60601-1 is required as a countermeasure against leakage current, creepage distance and withstand voltage.

It is necessary to provide separately a fuse, a transformer, etc.

A fuse and a transformer shall be installed separately from a power supply unit.

The system becomes enlarged and more expensive.

A power supply is certified with medical standard



It is not necessary to provide a fuse or a breaker, and a medical isolation transformer.

Both L and N lines contain fuses.

Withstand voltage and creepage distance like those of a transformer for medical use

It is not necessary to provide separately a fuse, a transformer, etc. *1

The system becomes miniaturized and less expensive.

*1 Please consult us if you need high interrupting rating fuse.

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

NEW HNSP5-350P Series

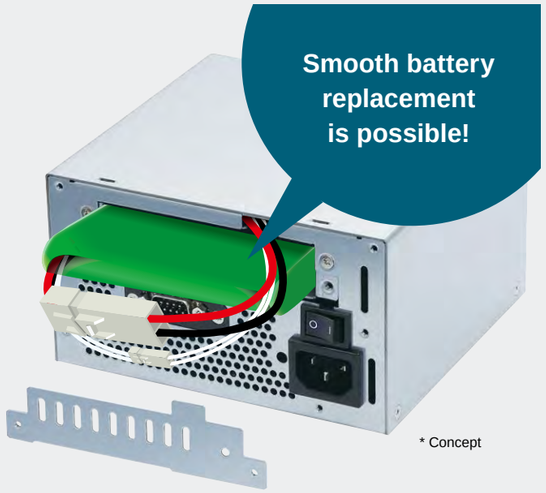
No external battery required, space-saving Nonstop power supply

ATX power supply with a built-in lithium-ion battery

Continuous: 245W Peak: 341W

Built-in battery package in a housing

A blackout backup system without an interruption can be realized because of the built-in battery package in the housing. It is possible to replace the battery from the mounting surface, so not necessary to disassemble or remove the power supply from the PC.



Other features

■**Support lithium-ion batteries**
■**The power supply unit clears VCCI ClassB for the conducted emission**
■**Low sound noise by adopting a temperature controlled variable speed fan.**
■**Minimum load current 0A for all outputs**
■**Shutdown control signal from RS232C/USB**

Specifications

Output voltage	+3.3V	+5V	+12V	-12V	+5VSB
Max. current/ max. power (continuous)	12A	12A	20A	0.5A	1A
	Total 66.4W		240W	6W	5W
	Total 240W				
	Total 245W				
Peak current/ peak power (within 5 s)	16A	16A	28A	0.5A	1A
	Total 83W		336W	6W	5W
	Total 336W				
	Total 341W				
Max. current/ max. power (at backup operation)	12A	12A	16A	0.5A	1A
	Total 83W		192W	6W	5W
	Total 200W				
	Total 205W				

Harness

Numbers of harnesses

MAIN	12V	HD
1 model	1 model	1 model

Model	Length and type of connector
Main harness MAIN	
WH-M2022-500	MAIN 500±10 20Pin
WH-M2422-500	MAIN 500±15 24Pin
12V harness 12V	
WH-V0808-500	12V 500±15 12V 8Pin
WH-V0408-500	12V 500±15 12V 4Pin
WH-VG208-500	12V 500±15 12V 4Pin + PCI-E 6Pin
WH-VV208-500-02	12V 500±10 12V 8Pin + 12V 8Pin
WH-VG208-500-02	12V 500±10 12V 8Pin + PCI-E 6Pin
HD harness HD	
WH-PP610-850	HD 550±15 150±15 150±15 150±15
WH-PS610-850	HD 550±15 150±15 150±15 150±15
WH-PS710-850	HD 550±15 150±15 150±15 150±15 850±15
WH-PS810-1000	HD 550±15 150±15 150±15 150±15 150±15

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

UDP Series

The thin and high efficiency module design enables miniaturization of control panels to save space

DIN-rail power supply

UDP-240 UDP-180/UDP-120

UDP-240 Series

Continuous: **240W** Peak: **400.8W**

Output voltage: **24V** Max. efficiency: **94%**

UDP-180 Series

Continuous: **180W** Peak (100/200VAC): **201.6/300W**

Output voltage: **24V** Max. efficiency: **93%**

UDP-120 Series

Continuous: **120W** Peak (100/200VAC): **201.6/300W**

Output voltage: **24V** Max. efficiency: **92%**

High efficiency, long life design

Software switching is adopted in the UDP series. Compared to conventional hardware switching, it suppresses heat generation due to the switching loss significantly, enabling miniaturization of built-in components. This makes it possible to produce smaller and more efficient power supply units.

The build-in arrestor enhances the resistance against lightening surges

By incorporating an arrestor as a surge protector, the resistance to external surges due to lightning or other causes has been enhanced.

Common mode: actual performance ± 8kV

Clears VCCI ClassB for the conducted emission

The power supply unit clears VCCI ClassB for the conducted emission. Because there is no need to install an external noise filter, it facilitates reductions in the cost and man-hour.

Specifications

Model		UDP-240-A24	UDP-180-A24	UDP-120-A24
Output voltage		+24V	+24V	+24V
Continuous power		240W	180W	120W
Peak power (10s)	100/ 200VAC	400.8W	201.6W/300W	201.6W/300W
Efficiency	115VAC	92%typ	91.5%typ	90.5%typ
	230VAC	94%typ	93%typ	92%typ
Power factor	115VAC	99%typ	99%typ	99%typ
	230VAC	91%typ	89%typ	88%typ
Input voltage		85-264VAC (with PFC, worldwide range)		
Input voltage*		UL (cUL)62368-1, UL508, CE marking approved PSE (ordinance item2) compliant		

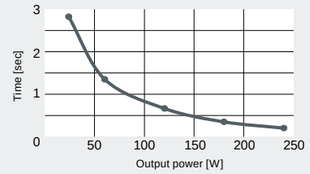
* UDP-180 and UDP-120 are compliant.

Backup for instantaneous power failure

By connecting a capacitor unit, backup for instantaneous power failure has been realized. Expected service life of 15 years has been realized in an environment of average ambient temperature of 40°C, eliminating the need for regular replacement of the unit.

DS01A-EC400/172F

■Backup discharge characteristics
(UDP-240-A24-*B0 at 100 VAC)



■Possible to extend the backup time by parallel connection of the units

Concept of parallel connection ▶

■Blackout backup model is under development

DS02A-L24/2.5L Lithium-ion battery unit

Other features

- **■Wide operating temperature range from -20°C to 70°C** (derating required)
  Even if the temperature inside the control panel is high, mechanism design with high degrees of freedom is possible.
- **■Available to start up at -40 deg environment**
- **■The PCB is coated as standard specification**
- **■Equipped with a variable resistor for adjusting output voltage**
- **■Notification of service life expiration supported** (optional)
  Notify the deterioration of electrolytic capacitor by H/L signal and LED.
- **■Possible to support SEMI F47**
- **■EN62477-1 OVC compliant design**

Thin, low-heat-generation design results in a space-saving control panel *http://www.nipron.com*

"ATX12VO" standard compliant power supply under development

Lineup of the products to be released

HPCSA-1500P

Continuous: 1200W Max. efficiency: 94%
Peak: 1500W (measurement at 230V)

* Concept

CH	CH1-7	CH8
Output voltage	+12V	+12VSB
Continuous max. current/power	24A	1A
	Total 1200W	12W
	Total 1200W	
Peak current/ power (within 5s)	32A	2A
	Total1500W	24W
	Total 1500W	
Min. current	0	0

HPCSA-1000P

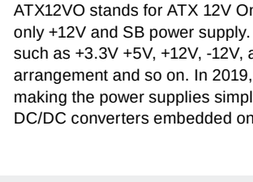
Continuous: 822W Max. efficiency: 89.5%
Peak: 1000W (measurement at 240V)

* Concept

CH	CH1-4	CH5
Output voltage	+12V	+5VSB
Continuous max. current/power	18A	3A
	Total792W	15W
	Total 822W	
Peak current/ power (within 5s)	25A	4A
	Total 1000W	20W
	Total1000W	
Min. current	0	0

HPCSF-400P

Continuous: 310W Max. efficiency: 89.1%
Peak: 400W (measurement at 240V)

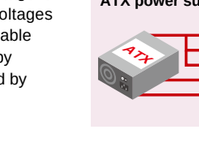


* Concept

CH	CH1-2	CH3
Output voltage	+12V	+5VSB
Continuous max. current/power	25A	2A
	Total 300W	10W
	Total310W	
Peak current/ power (within 5s)	30A	3A
	Total 385W	15W
	Total 400W	
Min. current	0	0

HPCFX-350P

Continuous: 245W Max. efficiency: 88.4%
Peak: 346W (measurement at 240V)



* Concept

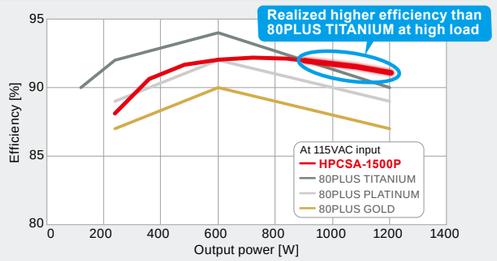
CH	CH1-2	CH3
Output voltage	+12V	+5VSB
Continuous max. current/power	20A	1A
	Total 240W	5W
	Total 245W	
Peak current/ power (within 5s)	28A	2A
	Total 336W	10W
	Total 346W	
Min. current	0	0

Features

■High efficiency & high reliability

High efficiency and high reliability are achieved simultaneously by designing optimal components layout and conducting severe product evaluation test.

Efficiency graph (HPCSA-1500P an example of measurement)



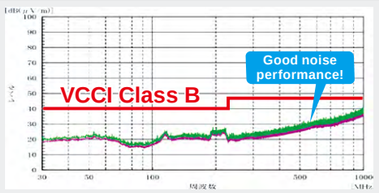
■Low sound noise design by adopting a temperature controlled variable speed fan.

■Reliable long term stable supply

■Low noise

With the enhancement of noise filter circuits and optimization of component arrangement, the conducted emission for the power supply unit alone clears VCCI Class B. Elimination of an external noise filter makes it possible to reduce the cost and man-hour.

Conducted emission characteristics
(HPCFX-350P an example of measurement)

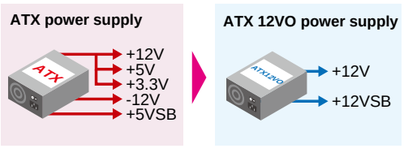


■Standby output is selectable from 5 V or 12 V

■Available as a 12V single output power supply

What is ATX12VO?

ATX12VO stands for ATX 12V Only. It is a new power supply standard that output voltage is only +12V and SB power supply. Conventional ATX power supplies output multiple voltages such as +3.3V +5V, +12V, -12V, and +5VSB. It causes complex system because of cable arrangement and so on. In 2019, Intel released this standard to simplify the system by making the power supplies simpler. Devices require +3,3V, +5V, or -12V are powered by DC/DC converters embedded on motherboards.



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

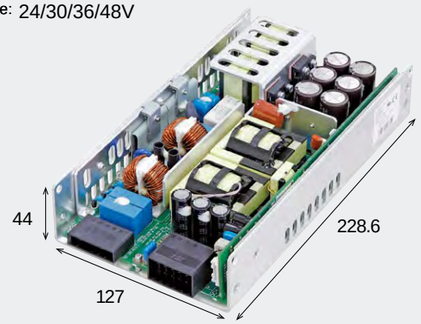
Higher efficiency will be achieved by the new design guide. *http://www.nipron.com*

UZP-600 Series

Fanless power supply unit supporting
the peak power output of 1200 W

Continuous: **600W** Peak: **1200W**

Output voltage: 24/30/36/48V



Specifications

Model	UZP-600-A24	UZP-600-A30	UZP-600-A36	UZP-600-A48	Common output	
Output voltage	+24V	+30V	+36V	+48V	+12VSB	+12V FAN (optional)
Continuous current/ continuous power (natural air cooling)	25A	20A	16.7A	12.5A	0.42A	0.25A
	600W	600W	601.2W	600W	5W	3W
Continuous current/ continuous power (forced air cooling)	33.4A	26.7A	22.3A	16.7A	-	-
	801.6W	801W	802.8W	801.6W	-	-
Peak current/ peak power (within 5s)	50A	40A	33.4A	25A	-	-
	1200W	1200W	1202.4W	1200W	-	-
Input voltage	85-264VAC (with PFC, worldwide range)					
Safety standard	UL (cUL) 62368-1, CE marking approved PSE (ordinance item2) compliant*					

* 30V and 36V types are compliant with safety standard.

One of the best in the industry in terms of efficiency

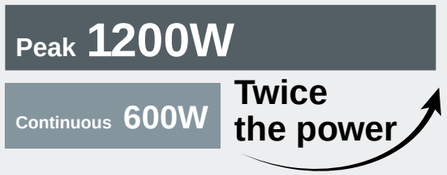
A high level of efficiency 95%typ has been achieved for a 24 V output type, providing a significant support for saving energy and reducing CO_2 emission.

Efficiency graph (an example of measurement)

[Measurement condition: —100VAC input —230VAC input]

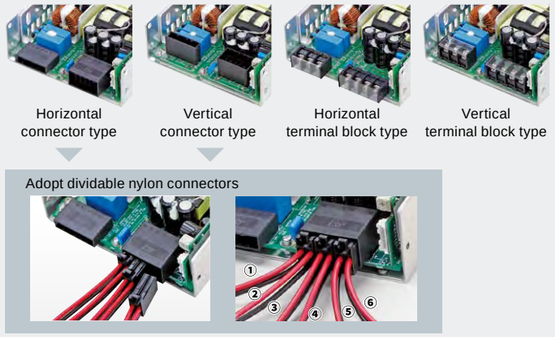
The high peak power twice as high as the continuous power is supported

The unit can supply the power twice as large as the continuous power for the predefined time (5s). This eliminates the need to select a power supply unit with a large continuous power rating matching the peak load and enables the reduction in the PSU size, leading to many benefits including the elimination of fans in the unit and replacement of unit-type power supplies.



I/O terminal blocks for different scenes of use are available

The PSU comes with harmonica style terminal blocks or dividable nylon connectors as I/O terminals.



Features

- **■Miniature size of 5 × 9 inches**
- **■Comes with a +12 V standby output**
- **■Blackout detection signal and remote ON/OFF feature incorporated**
- **■Instantaneous power failures can be addressed by connecting a capacitor unit**
- **■The built-in arrestor to avoid/mitigate the risk of lightning damage**
  Common mode: actual performance ± 8kV
- **■Models certified for medical standards will also be added**
- **■Notification of service life expiration supported (optional)**
  Notify the deterioration of electrolytic capacitor by H/L signal and LED.
- **■With a +12V output (optional) linked with the remote ON/OFF for the fan**
- **■Instantaneous power failures can be addressed by connecting a capacitor unit and pack**

Capacitor unit *1
CB03A-EC400/801F

*1 scheduled to apply for safety standards

Capacitor pack *2
BS13A-EC400/422F

*2 compliant to safety standard

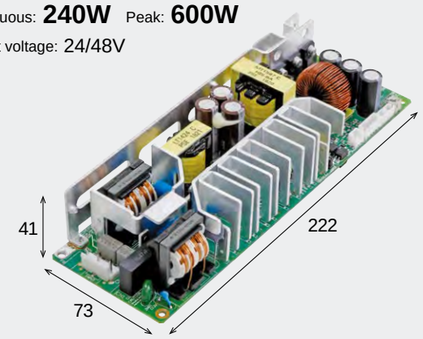
Highly efficient design reduces heat generation and increases equipment reliability.

OZP-240/600P Series

The power supply featuring enhanced peak power

Continuous: **240W** Peak: **600W**

Output voltage: 24/48V



Features

- **■Amazing support for the high peak load approx. 2.5 times larger**
- **■The power supply unit clears VCCI ClassB for the conducted emission**
- **■With remote ON/OFF feature**
- **■With blackouts detection signal**

Specifications

Model	OZP-240/600P-24	OZP-240/600P-48
Output voltage	+24V	+48V
Max. current/ max. power (continuous) 200VAC	10A	5A
	240W	240W
Peak current/ peak power (within 5s) 200VAC	25A	12.5A
	600W	600W
Max. current/ max. power (continuous) 100VAC	8.4A	4.2A
	201.6W	201.6W
Peak current/ peak power (within 5s) 100VAC	16.7A	8.4A
	400.8W	403.2W
Input voltage	85-264VAC (with PFC, worldwide range)	
Safety standard	UL (cUL) 60950-1, IEC62368-1, CE marking approved PSE (ordinance item2) compliant	

- **■Double sided through hole printed circuit board adopted**
- **■A variable resistor for adjusting output voltage provided**
- **■Instantaneous power failures can be addressed by connecting a capacitor unit or pack.**

Capacitor unit *1
CB03A-EC400/801F

*1 scheduled to apply for safety standards

Capacitor pack *2
BS13A-EC400/422F

*2 compliant to safety standard

GP1U-1000 Series

Low height 1U size PSU

Continuous: **1008W** Peak: **1440W**

Output voltage: 24/48V

* Concept

Features

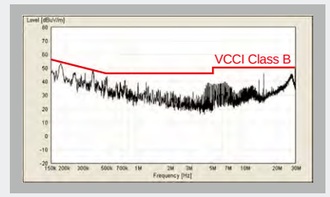
- **■A long service life and high power density offered in one unit**

- **■100% output with ambient temperature of 50°C available**
- **■100% output at 90VAC input available**

Specifications

Model	GP1U-1000-24P	GP1U-1000-48P	Common output
Output voltage	+24V	+48V	+12VSB
Max.current/ max. power (continuous)	42A	21A	0.5A
	1008W	1008W	6W
Peak current/ peak power (within 5s)	60A	30A	0.5A
	1440W	1440W	6W
Min. current	0A	0A	0A
Input voltage	85-264VAC (with PFC, worldwide range)		

- **■The power supply unit clears VCCI ClassB for the conducted emission**



- **■Low leakage current**

  Low leakage current characteristics of 0.5mA or less at 264VAC input have the same level as a power supply listed as certified according to the medical standard

- **■Supports parallel operation**

  With a built-in current balance circuit, supports parallel operation of up to three units

- **■Models certified for medical standards will also be added**

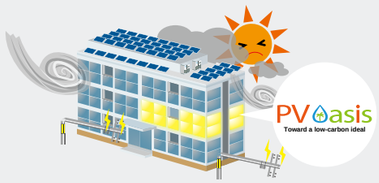
  Medical standard IEC60601-1 Ed.3.1(MOPP) certified model will be added.

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

Amazing number of rollers are driven with its high peak output despite its small size

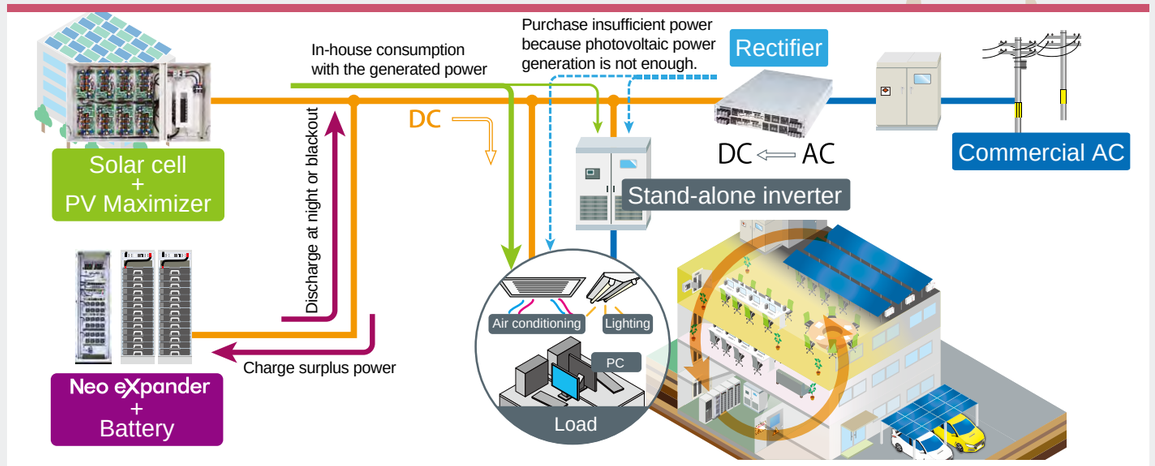
PV Oasis

Toward a low-carbon ideal

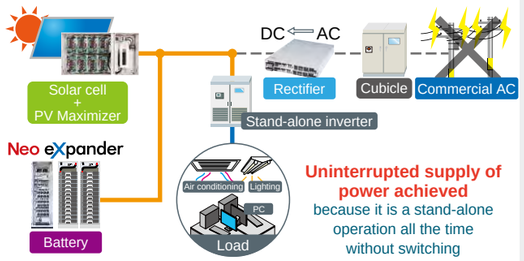


Simultaneously supports your business continuity plan as well as your sustainability initiatives.

Since the PV Oasis system is not connected to the grid, coordination for the grid connection is not necessary and it is possible to introduce an in-house power consumption system smoothly.
The PV Oasis power storage system may be used as an emergency power source in an event of a blackout (BCP measures).
Also, the use of a clean energy source that does not emit CO_2 in power generation makes it possible to utilize decarbonization as an eco-friendly value and enhance the corporate value.



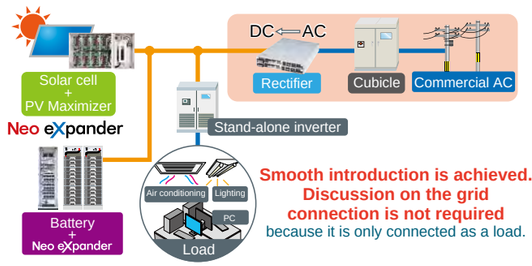
Uninterrupted supply of power



Uninterrupted supply of power achieved
because it is a stand-alone operation all the time without switching

In the case of in-house power consumption with grid connection, blackout occurs when switching to stand-alone operation. The blackout does not happen with PV Oasis because it runs independently all the time.

Negotiation for the grid connection not required



Smooth introduction is achieved. Discussion on the grid connection is not required
because it is only connected as a load.

It is possible to install equipment only by applying to electric power company.

Other fascinating advantages

Parallel operation with a standby power generator

As the standby power generator and the solar power can be used parallelly, rather than switching, a stable operation is possible for a prolonged period while securing the required power and reducing the fuel consumption.

Power consumption peak cut

When peak demand is suppressed, the maximum demand is lowered. The basic rate will be lowered, and the electricity charge will be reduced.

Additions and expansions are easy

Off-the-grid systems

Parallel supply of AC and DC power is possible

There are more advantages comparing with common in-house consumption.

Meeting a variety of customer needs with PV Oasis *http://www.nipron.com*

PV Guardmyan

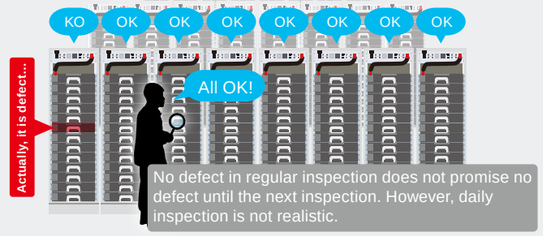
Photovoltaic power generation monitoring for PV MAXIMIZER × Battery monitoring and control for Neo eXpander

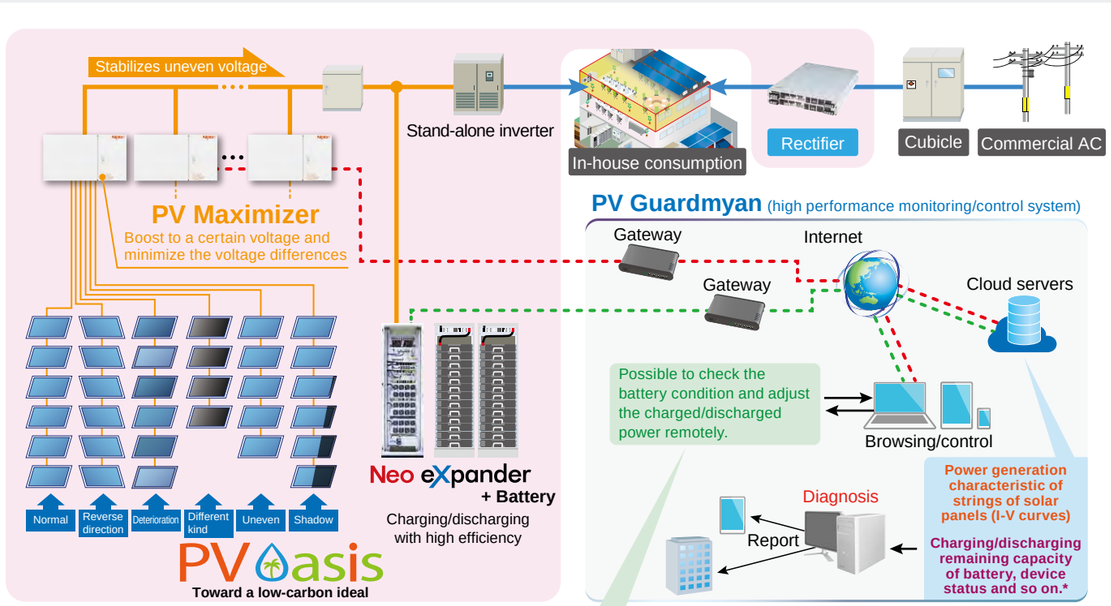
Reduce O&M cost by remote monitoring and automatic error diagnosis. Recommend using with PV Oasis!

PV Guardmyan manages and analyzes big data, including the power generation for each string measured by the PV Maximizer and characteristics curve (I-V characteristics curve) reflecting the health of each string, detects problems and their signs remotely and reports them. It offers cloud-based monitoring/diagnosis of the power storage systems and remote control of charging/discharging operation. It enables operation for BCP measures and reduction of maintenance cost.

A small anomaly may lead to a big trouble

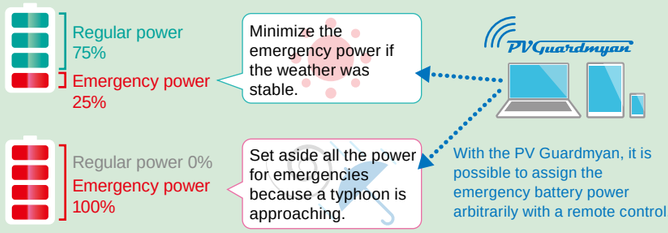
Neglection of the maintenance could result in it not working when it is needed to.





It is possible to assign the emergency battery power with a remote control.

Combined operation of PV Guardmyan and Neo eXpander (PV Oasis) can be emergency battery system. It will be BCP measures. It monitors the batteries at the same time, so daily maintenance can be minimized. It can be great labor saving comparing with an independent power generator.



* To be supported

Daily simultaneous remote diagnosis detects the power generation error in early stage. *http://www.nipron.com*

Implement in-house power consumption starting with a single Zero Energy Room.

Have you experienced these things?

SDGs

Main client is checking the progress of environmental action.

No action may impact the business.

RE100

Decarbo-nization

However, big budget is not available for ZEB (Zero Energy Building) amid COVID-19.

Take it easy and start from little things

Achieve Zero energy consumption starting with one room in your existing office (no cubicle modifications required).

Nipron's Zero Energy Room

Have you experienced these things?

Blackout

Resili-ence

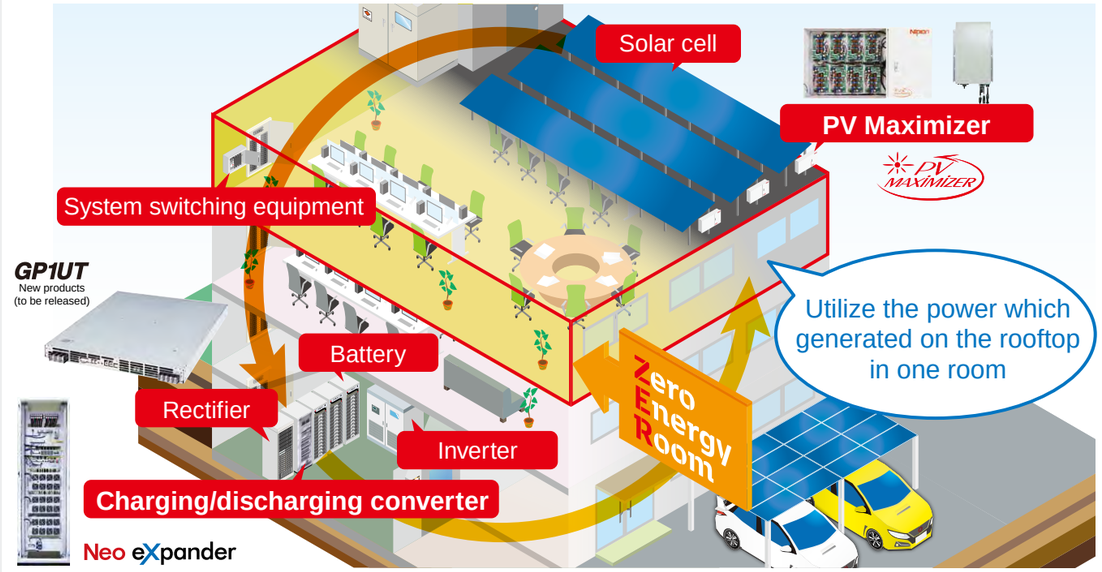
Feeling nervous by hearing experiences in the wide area blackout in Hokkaido and Chiba.
Tomorrow, it could happen to us. At least, the safety of employees should be ensured.
However, we do not have a fund sufficient to build a new shelter and, even if we did, it would be a waste not to use it on a regular basis.

BCP

Take advantage of existing equipment first

One room of an existing office can be modified to a shelter. (It can be used for a long time because of the renewable energy.)

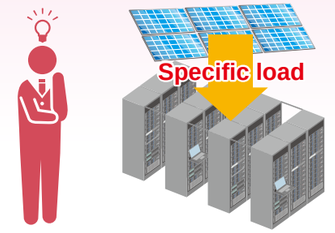
Nipron's Zero Energy Room



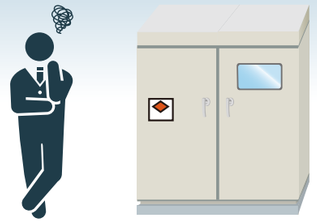
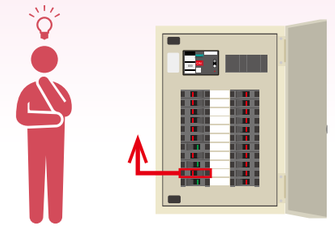
PVOasis Toward a low-carbon ideal available from one room

Special point of Zero Energy Room

The use of renewable energy (photovoltaic power generation) can be tracked.

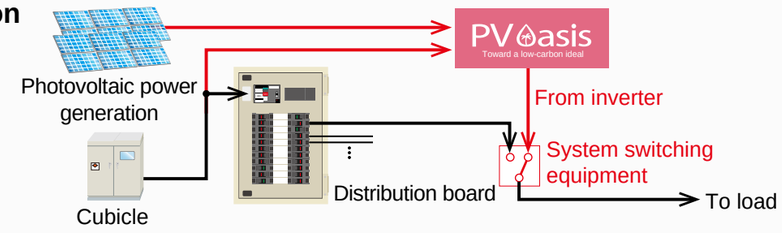
Common photovoltaic power generation (grid-connection type)	Nipron GAZE into the future
 The electricity from the solar panels get mixed with that from the grid, and cannot be tracked.	 The use of the renewable energy can be tracked, so it can be publicized. It also can be backup.

Connect circuit breaker of distribution board without modifying cubicle

Common photovoltaic power generation (grid-connection type)	Nipron GAZE into the future
 No subcontractors who can modify the cubicle Replacement to a new cubicle does not worth the cost.	 It can be connected to a particular breaker in a distribution board which you would like to backup. The breaker can be changed later.

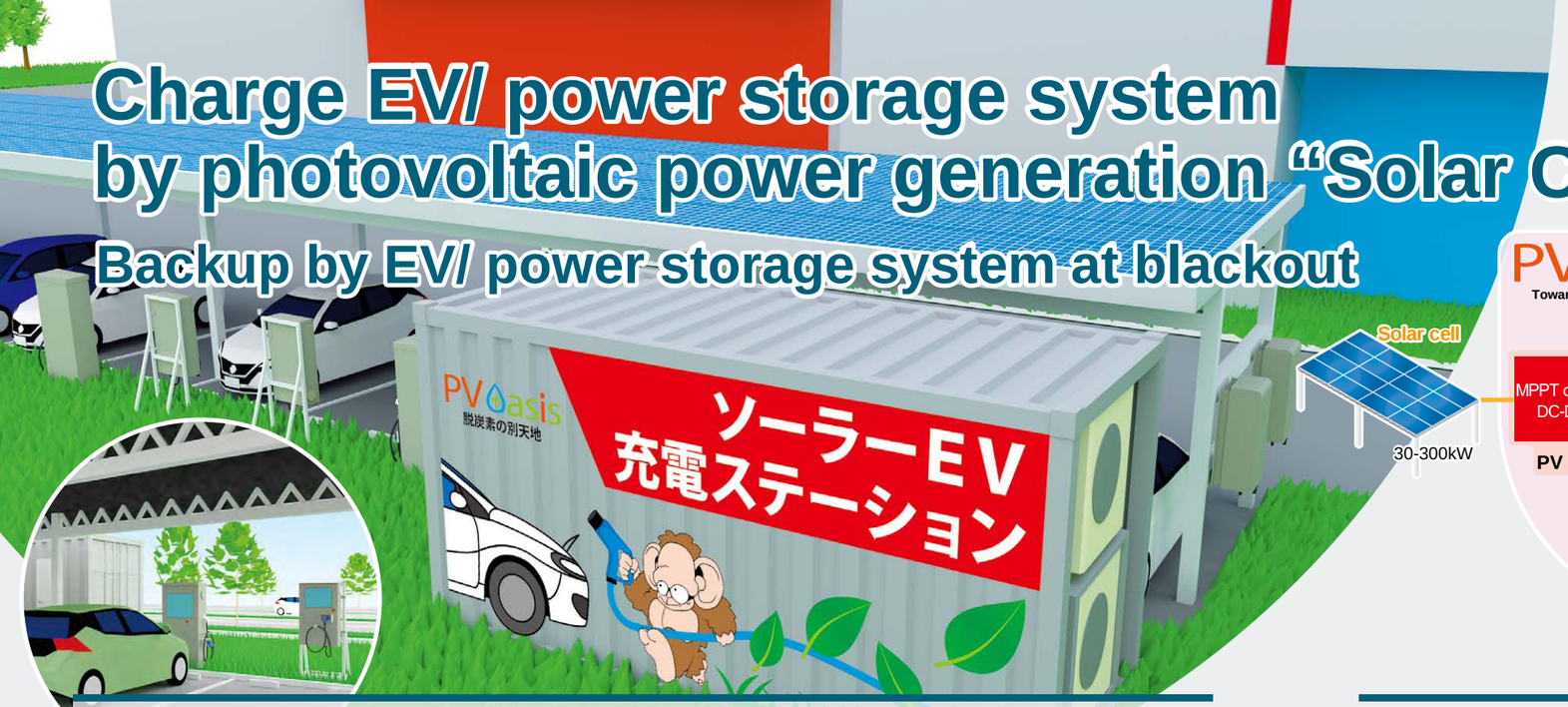
Concept of connection

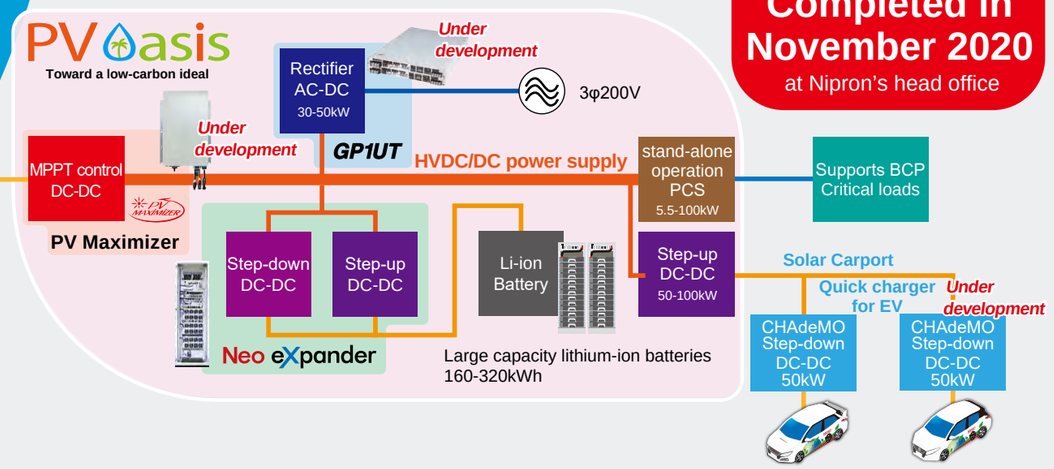
Additional equipment (red) is connected to the existing cables (black).



Charge EV/ power storage system by photovoltaic power generation “Solar Carport”

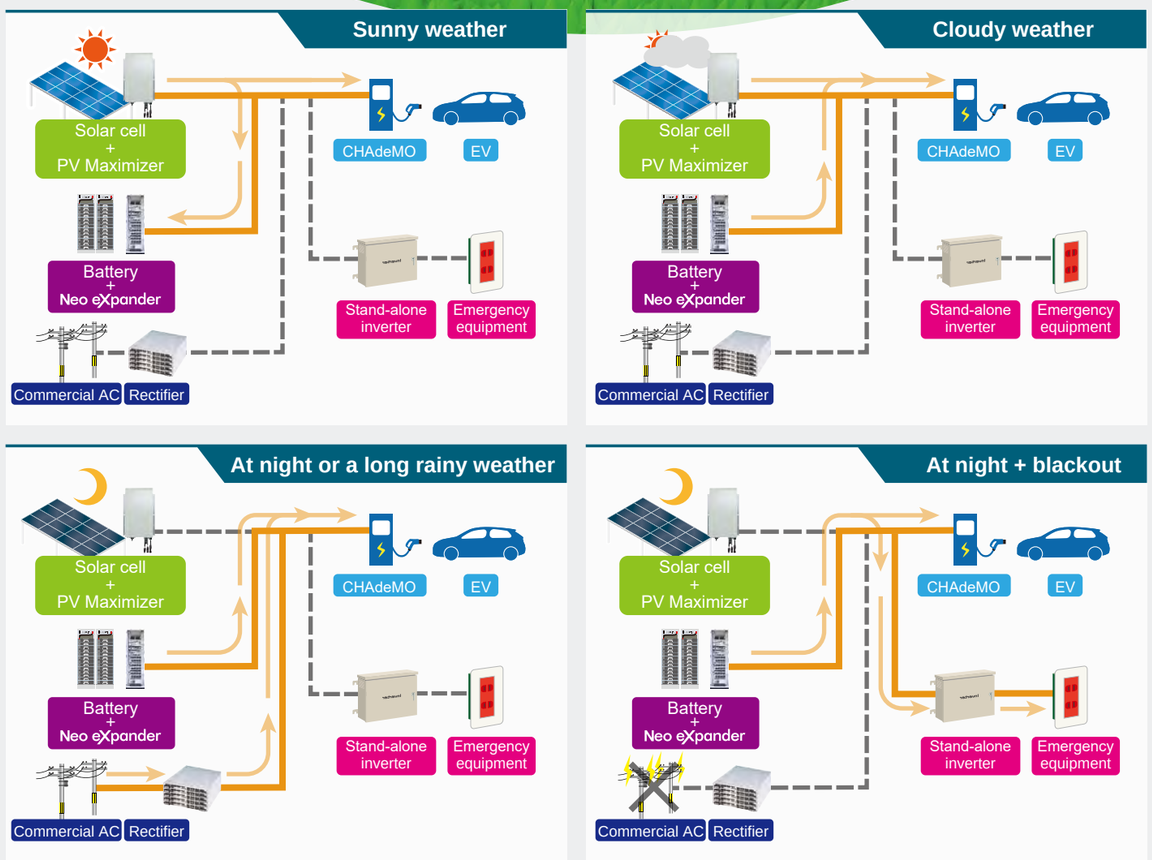
Backup by EV/ power storage system at blackout





Completed in November 2020
at Nipron’s head office

Compatible utilizing renewable energy and BCP measures



Completed in November 2020 at Nipron’s head office http://www.nipron.com

The new products to be released

Rectifier [GP1UT-6000-400-TIS] Optimal rectifier for DC power supply system configuration

AC from grid can be converted to stable and highly efficient DC.
Rack-mount model which can customize output power by parallel operation of the power supplies.

Input voltage range: ***Three phase 180-264VAC***

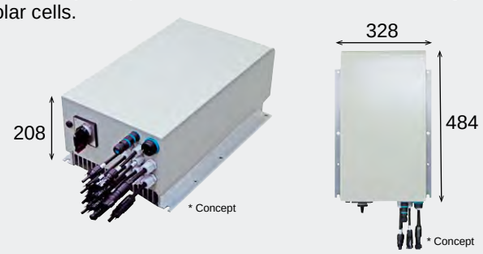
Rated output voltage: ***400V***

Rated output capacity: ***6600W***

- ■ Support three phase harmonic current regulation
- ■ Output voltage adjustable by external voltage regulation (240V-400V)
- ■Support CVCC regulation and available as a charger
- ■Safety standards: IEC62368-1 compliant

New model PV Maximizer Supports 4 strings with 1 unit

Controlling the voltage to maximize output of solar cells, and converting it to stable and high efficient DC for DC power supply system.
Additionally, it is possible to detect risk of failure through dedicated cloud servers by collecting and analyzing measured data of the solar cells.



Input voltage range *each string:* ***160-400V***

Input current/ power *each string:* ***10A/3.2kW***

Output voltage configurable range: ***200-400V***

- ■Support 4 strings input with 1 unit
- ■Optimal power generation by MPPT control of each string
- ■Possible to set output voltage from the cloud
- ■Support high-performance power generation monitor
- ■>IP44: waterproof and dustproof

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

Renewable energy products for a decarbonized society http://www.nipron.com

Exhibition report

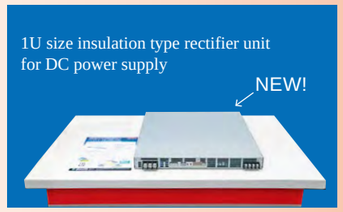
We took part in the 7th INT'L SMART GRID EXPO Osaka.

Nipron took part in the 7th INT'L SMART GRID EXPO Osaka held for three days from September 9 to 11 at INTEX Osaka. This is a special exhibition in which all products and technologies necessary for building smart grids and distributed energy systems are presented.
At the Nipron booth, three products were introduced for the first time. The main feature was the Zero Energy Room. In recent years, in-house power consumption is attracting the eyes of many as evidenced in the introduction of in-house power consumption system as a business continuity plan in anticipation of large-scale blackout due to disaster and for the purpose of appealing eco-friendly corporate management. However, introduction of in-house power consumption system for the entire building is difficult in terms of the cost. Since the Zero Energy Room introduced in the exhibition can be introduced for a single room at a low cost, thus lowering the hurdle, Nipron's exhibit had caught the attention of many visitors. Other proposals included the new PV Maximizer, which maximizes the power generation and supports four-string input, and GP1UT, which is a 1U rectifier unit that converts the AC power received from the grid to the DC power. We would like to express our heartiest appreciation to everybody who visited the Nipron booth.

First appearance products

Zero Energy Room (See the page 9-10 for details)

New model PV Maximizer (See the page 12 for details)



GP1UT (See the page 12 for details)

Nipron Sanda dream solar plant

The introduction of the PV Maximizer was completed.

Nipron has acquired a solar power station that is in operation in Sanda City, Hyogo Prefecture last year to enhance the sales promotion of the "PV Maximizer" for the secondary market of solar power stations, which has become more active recently. In addition, PV Maximizer and PV Guardmyan were completely introduced in Nipron Sanda dream solar plant.
We will perform a demonstration of repowering, a process to restore the original power generation capacity as it was put into operation or a level near it. The repowering result will be introduced in future issues of Nipron Wave and by other means.

Introduced PV Maximizer

Nipron Sanda dream solar plant　Area of land: 5,161m²

Factor of lowering power generation

Shade of weeds

Hot spot

Shade of trees

Panel damage

Shade of fallen leaves

The Productivity Improvement Presentation for Manufacturing Department

The Productivity Improvement Presentation for Manufacturing Department was held.

The Productivity Improvement Presentation for Manufacturing Department was held on July 19. In the event, a total of eight teams competed by presenting improvements and other achievements made in their work. After a stringent and fair deliberation, following the top three teams were awarded. The presentation turned out to be a very productive event in which various departments shared kaizen programs in production processes and approaches in developing skills of young employees who are expected to be the major force in the company's future. We believe that the steadfast effort of production department and its result will facilitate further improvement of product quality and reliability and help realize the workstyle reform.
Nipron and its employees will continue to work together to further improve the company's productivity.

A scene of the presentation

Gold prize
MDF Machine
Implementation Team

Silver prize
MDF Board
Implementation Team

Bronze prize
HDF Large/GP Power Supply
Produce Section Team

Gold prize
MDF Machine Implementation Team

Silver prize
MDF Board Implementation Team

Bronze prize
HDF Large/GP Power Supply
Produce Section Team

The Productivity Improvement Presentation for Sales & Administrative Departments

The Productivity Improvement Presentation for Sales &Administrative Department was held.

The Productivity Improvement Presentation by young employees of the sales and administrative departments was held on August 21. In the event, a total of ten teams competed by presenting improvements and other achievements made in their work. After a stringent and fair deliberation, following the top three teams were awarded. The event turned out to be a very fruitful one by sharing improvement activities performed routinely in each department.
The Sales Management Team, the gold prize winner, presented their kaizen activity in the tasks assisting sales persons. They say they will continue their kaizen activity to enable sales persons to focus on responding to customer inquiries and enhance the customer satisfaction level further.
Prior to the presentation, a factory tour of Hanshin Dream Factory was offered to sales persons and engineers. They were deeply moved by taking a look at the site of production for the products designed and sold by them.

A scene of the presentation

A scene of factory tour

Gold prize
Sales Management Team

Silver prize
General Affairs Team

Bronze prize
Business Planning Team

Gold prize Sales Management Team

Gold prize Sales Management Team

Bronze prize Business Planning Team

The Nipron Story, by Our President

Marking the 50th anniversary of our company's founding thanks to you all!

How are you all doing in the late autumn 2020 (the second year of Reiwa)? This year started with the new coronavirus pandemic. Although the coronavirus threat tended to subside once, the increase in the number of new infections is becoming noticeable again mainly in Europe and the United States, intensifying concerns that the stagnation of the world economy may remain unsolved and develop into a great depression. The world's total debt amounts to $90 trillion, almost the same as the world's total GDP, and is expected to continue to further increase in the future. This is the result of fiscal-stimulus packages to respond to the new coronavirus, but how will this debt be repaid? If even one country defaults on its debt, it may trigger a domino effect that makes other countries default one after another. In order to prevent such a chain reaction, countries around the world continue with monetary easing as an economic policy; this has caused a lot of anomalies and speculative phenomena on stock markets due to money gluts. I understand that there's no limit to worries for managers who have a heavy mental burden to steer the enterprise in such a situation.

Let's leave the world situation at that and move on to the events of Nipron.

This year marks the 50th anniversary of the founding of Nipron (40th anniversary of its establishment), and we were planning to hold a big commemorative event on November 4th by inviting customers and stakeholders who have been supporting us. However, it may pose a risk to hold a large gathering in these difficult times of the coronavirus pandemic, so we decided to postpone it for about a year. For the purpose of adding grace to this ceremony, we are developing a number of "new products commemorating the 50th anniversary" toward the 70th and 100th anniversaries, and each of them is being completed. Since this enthusiastic effort cannot be postponed, we decided to hold "50th Anniversary New Product Preview" as an internal event to recognize and reward our eight development teams. The types of new products are as follows.

① New PV Maximizer (miniaturization & cost reduction realized by integrating DC/DC converters for four strings and PV Guardmyan in a single board)
② 1U 6 kW rectifier
③ Power storage system container
④ Solar EV carport system
⑤ Power source for the EV charging stations (10 to 50 kW)
⑥ 5.5 kW 100% digital inverter
⑦ DAV system 5.5 kW 100% digital bidirectional insulated DC/DC converter
⑧ PV Guardmyan integrated version
⑨ UDP (DIN rail power supply) series
⑩ UZP-360/UZP-600
⑪ HNSP5 (lithium-ion battery built-in nonstop power supply unit), HPCSA-1500P-12VO
⑫ mFZP-075
⑬ Large-scale custom-made power supply unit, etc.

At this event, a product demonstration exhibition briefing session will be provided by all the above eight development teams to compare and evaluate items such as novelty of development, expected sales volume, impact on target market, functionality, and design. Then, winners of gold, silver, and bronze prizes will be announced and commended, and prize money will be awarded to appreciate the pains they have taken in the course of development. I'd like to take this opportunity to thank members of each development engineering team for their continued hard work, not just for this time, and bring our hearts together to make our products good sellers.

Looking back on the 50 years since our founding, I started a business with no capital, or barehanded, not in a planned manner at all. My startup began with a part-time contract job while searching for an environment where I could immerse myself in research and development work so much as to forget the time like I did in a company I was working until I quit (Miki Denki Seisakusho Co., Ltd., a protective relay manufacturer). Now I wonder how I have survived a messed-up life from those days till today. In this way, the only one driving force for me to start my business was a desire to "enjoy my work," which became one of our company's seven management philosophies: "the philosophy for opening up a business."

Besides being very ambitious and optimistic, I'm still a man of action who always wants to put his idea into practice; this keeps entertaining myself and has grown my ability to carry through. Along the way, I fell for smooth talking of a major company and signed a capital tie-up agreement with them, ending up a dissolution of the partnership in just a few years. Now that 50 years have passed since the company's founding in 1970 (the Osaka Expo year), I'm deeply moved to see our company has become what it is today.

Going forward, aiming to become the world's number one company specializing in power supplies, I will make further efforts together with our employees as long as I live to grow Nipron into a unique existence.

Setsuo Sakai
October 2020

Nipron Co., Ltd. *http://www.nipron.com*

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