

Single-output power supplies

With many features, including high peak output, high efficiency, and medical standard certification, etc.

Lineup

You can find the ideal power supply for your devices.

Nipron's single-output power supplies cover various output and are designed for reliability and functionality throughout the entire series.



For safety, reliability, and high quality

Long-term stable supply Essentially 10 years since their launch

Wide operating Also suitable for sev temperature range

Peak output (W

ontinuous output (W)

Peak output (W)

Output voltage (V)

y, and high quality			
	Continuous output (W)	13.2-26.4	30-39.6
s of stable supply	Peak output (W)	16.5-31.5	40-60
	Output voltage (V)	3.3,5,12,15,24	5,12,15,24
evere environments	Size W×H×D (mm)	50×28×62.5	50×26×87.5

Under development

FZP-025

FZP-040

	medical standards		medical standards	medical standards		medical standards	
	mFZP-075	UZP-120	mUZP-120	mUZPT-120	UZP-150	mUZP-150	
t (W)	50-75	100.8-120	100.8-120	100.5-120	150-153.6	150-153.6	
V)	75-150	200.4-201.6	200.4-201.6	200.4-201.6	400.8-401.4	400.8-403.2	
(V)	5,12,15,24	12,24,36	12,24	12,15,24	12,18,24,36,48	12,18,24,36,48	
m)	55×28×133	62×27×155	62×27×155	62x38x155	75×35×160	75×35×160	Τ

Certified with

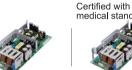




Certified with







	UZP-220	mUZP-220	mUZP-220/520P	OZP-240/600P	OZP-350	mOZP-350
Continuous output (W)	180-220.8	180-220.8	220.8	201.6/240 (at 100/200 VAC)	300-352.8	300-352.8
Peak output (W)	400.8-401.4	400.8-401.4	520.8	400.8-403.2/600 (at 100/200 VAC)	504-601	504-601
Output voltage (V)	12,18,24,36,48	12,18,24,36,48	24	24,48	12,15,24,30,36,48	12,15,24,30,36,48
Size W×H×D (mm)	75×36×160	75×36×160	75×36×160	73×41×222	95×47×222	95×47×222

Certified with



320.4-403.2

504-604.8

12.24.36.48.56

84×45×180



mUZP-400

320.4-403.2

504-601.2

12.24.36.48

84×45×180









			YEDLA
UZP-400/1200P	mUZP-400/1200P	UZP-600	UDP-120
402-403.2	403.2	600-601.2	120
1200-1202.4	1200	1200-1202.4	201.6/300 (at 100/200 VAC)
24,30,36,48	24,48	24,30,36,48	24
84×45×180	84×45×180	127×44×228.6	35×124×117.5













			100	100		
	UDP-180	UDP-240	GPSA-600	GPSA-1000	GPSA-1500	GPSA-5000
Continuous output (W)	180	240	600-601.2	907.2/1008 (at 100 VAC/115-240VAC)	1056-1104 (at 100 VAC) 1512-1632 (at 200 VAC)	4800-4992 ^{*2}
Peak output (W)	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)	6000
Output voltage (V)	24	24	12,24,36,48	24,48	24,48	48,96
Size W×H×D (mm)	35×124×117.5	41×124×117.5	61×128×240	61×128×240	82×128×250	198×125×314

*1 Under development *2 With three-phase 180-240 VAC input

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Ultra-small, high-efficiency, single-output power supply

FZP-025 series

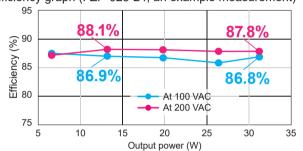


Output voltage	+3.3 V	+5 V	+12 V	+15 V	+24 V	
Continuous output	4 A	4 A	2.1 A	1.7 A	1.1 A	
current/power (Convection)	13.2 W	20 W	25.2 W	25.5 W	26.4 W	
Continuous output current/power	4 A	4 A	2.6 A	2.1 A	1.3 A	
(Forced air)	13.2 W	20 W	31.2 W	31.5 W	31.2 W	
Peak	5 A	5 A	2.6 A	2.1 A	1.3 A	
current/power (within 10s)	16.5 W	25 W	31.2 W	31.5 W	31.2 W	
Input voltage	85-264 VAC (worldwide range)					
Size W×H×D		50×28×62.5 mm				

High efficiency

Its high efficiency resulting in low heat generation enables miniaturization and

Efficiency graph (FZP-025-24, an example measurement)



Supports peak power

Peak power support model, enabling peak output (up to 120% of the continuous rated output) for a duration of up to 10 seconds.

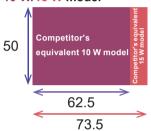
Peak 31.2W

Continuous 25.2W

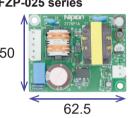
Smaller with higher capacity

Up to 25 W output in a size equivalent to competitor's 10 W model

Competitor's equivalent 10 W/15 W model







Other features

- Clears VCCI Class B for conducted emissions
- The output voltage is adjustable with the potentiometer.

Next new products that meet various needs

75 W board-type power supply dedicated for 100 VAC input





600 W fanless power supply with 2500 W peak power



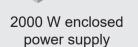


200 W-class board-type



1000 W enclosed power supply

ideal for outdoor use



Product proposal-

Fully sealed design, meeting IP67 dustproof and waterproof standards,



Features

- IEC61000-3-2 Class C
- (harmonic standards for lighting equipment)
- PSE compliant
- Adjustable brightness by external signal
- Possible to enhance the resistance against external surges due to lightning

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

DIN-rail power supplies

Small sized model with slim and high efficiency design

Avoid/mitigate the risk of lightning damage

UDPseries



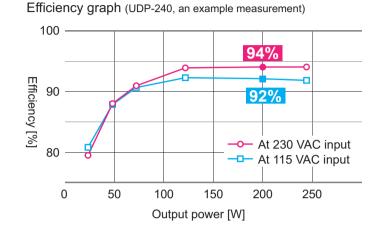
UDP-240-A24 Continuous: 240W Output voltage: 24V Peak: 400W



UDP-180-A24 Output voltage: 24V Peak: 200W/300W (Input voltage: 85-264 VAC Input voltage: 85-264 VAC



UDP-120-A24 Continuous: 120W Output voltage: 24V Peak: 200W/300W (1 Input voltage: 85-264 VAC



Coated PCB as standard

It contributes to the long service life of products in harsh environments.





Black light irradiated

Other features

- Clears VCCI Class B for the conducted emission without an external noise filter
- Wide operating temperature range from -20°C to 70°C (derating required)
- Able to start-up at -40°C environment
- Equipped with a variable resistor to adjust output voltage
- Built-in arrestor to avoid/mitigate the risk of lightning damage
- Able to support SEMI F47
- EN62477-1 OVC III compliant design
- Available for European terminal type or screw terminal type as I/O terminals

European terminal type



Input

Screw terminal type

Backup for momentary power failure (capacitor units)

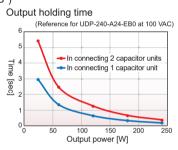
This product can extend the output holding time of the UDP series and take measures against abnormal input such as momentary power failure. (Compatible models: UDP-***-A24-*B*)



capacitor unit

Designed for high efficiency



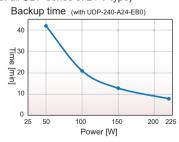


- Parallel connection of units extends the output holding time.
- Electrolytic capacitors do not require frequent replacement in contrast to batteries. (expected life: approx. 15 years)
- Blackout detection signal, AC FAIL, comes as standard.

Backup for blackout/momentary power failure (backup units)

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





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- Able to detect and notify about various battery abnormalities.
- Configurable backup time after AC power outage by setting the dip switch (4 options: 1 min., 3 min., 5 min., and until the discharge termination voltage)
- Status indicator of the backup unit by LED

UDP series with service life indicator

UDP-***-A24-**X-B



Continuous: 240W

Output voltage: 24V

Input voltage: 85-264 VAC

Size (W×H×D): 41×124×117.5mm

Peak: 400W





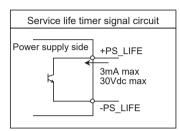


UDP-120-A24-**X-B

Output voltage: 24V Peak: 200W/300W Input voltage: 85-264 VAC Size (W×H×D): 35×124×117.5mm

Service life indicator

The service life indicator is a feature to compute the level of degradation of electrolytic capacitors from the parts temperature and notify when the product is nearing the end of its life with a signal and LED light when the estimated remaining life drops to 20% or the cumulative operating hours reaches 15 years excluding the period in which the system is not energized.





LED display

USB PD power supply for DIN-rail

UDP-200-APD-T00-B



Port	USB-C Port 1				USB-C Port 2					
Output voltage	5 V	9 V	12 V	15 V	20 V	5 V	9 V	12 V	15 V	20 V
Output current	3 A	3 A	3 A	3 A	5 A	3 A	3 A	3 A	3 A	5 A
Output power	15 W	27 W	36 W	45 W	100 W	15 W	27 W	36 W	45 W	100 W
Output power	Max. 100 W				Max. 100 W					
Total output power		200 W								
Efficiency		88% typ. (at 115 VAC) / 90% typ. (at 230 VAC)								
Input voltage		85-264 VAC (worldwide range)								
Safety standard	UL62368-1(c-UL), IEC62368-1, PSE (ordinance clause 2) compliant CE marking									
Size (W×H×D)		With DIN-rail bracket 41×124×117.5 mm								

Two type-C ports with an output of 100W max.

Type-C port enables a total output power of 100 W (20V 5A) max for a single port. (Output settings for each port are configured based on communication requests from devices compatible with USB PD standard.) This makes it possible to supply power to two different devices at once.



Other features

- Compact and space-saving with a slim design
- The built-in arrestor enhances the resistance against external surges due to lightning or other causes.
- Wide operating temperature range from -10°C to 40°C
- Long-term stable supply designed and made in Japan

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DC input single-output power supplies

DC-DC switching-mode power supplies

UZD-150-HV series

Support max. 260% high peak



Input voltage: 120-400 VDC Continuous: 150-153.6 W

Peak: 400.8-401.4 W

Output voltage: 12-48 V Size: 75×35×160 mm (W×H×D)

UZD-400-HV series

Small size and large capacity



Input voltage: 120-400 VDC Continuous: 320.4-403.2 W

Peak: **504-601.2 W**

Output voltage: 12-48 V Size: 84×45×180 mm (W×H×D)

UZD-600-HV series Under development

Small size, large capacity and high peak



Input voltage: 120-400 VDC

Continuous: 600 W

Peak: 1200 W

Output voltage: 24-48 V

Size: 127×44×229.6 mm (W×H×D)

UZD-220-HV series

Low standby power consumption



Input voltage: 120-400 VDC

Continuous: 180-220.8 W Peak: 400.8-401.4 W

Output voltage: 12-48 V

Size: 75×36×160 mm (W×H×D)

OZD-350-HV series

Low heat generation with a high-efficiency circuit



Input voltage: 120-400 VDC

Continuous: 300-352.8 W Peak: **504-601 W**

Output voltage: 12-48 V

Size: 95×47×222 mm (W×H×D)

UDD-240-HV/A24-E00

DC input power supply meets safety standards



Input voltage: 120-400 VDC

Continuous: 240 W Peak: 400 W

Output voltage: 24 V

Size: 41×124×117.5 mm (W×H×D)

UL62368-1, CSA62368-1(c-UL) certified [Certification range: 135 to 350 VDC] UL508 certified [Certification range: 135 to 310 VDC]

Advantages of Nipron's DC input power supplies

External DC power fuse not required

Common AC-DC power supply units work with the supply of DC power. However, because the internal power protection fuse is made for AC power supply, an external DC power fuse is required to use such PSUs safely and this results in an added burden in arranging and connecting parts. Since Nipron's DC input power supply has a DC power fuse integrated in the unit, no added man-hours or cost are required.

We also have models certified to the safety standard as DC input power supply in our lineup.



* Feel free to contact us for DC input power supplies on this page

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High-capacity single-output power supplies

High capacity/high efficiency/multifunction

GP1UT-6000-400-TES

1U size slim and high-capacity output power supply



Continuous max · 6600-7200 W Input voltage: Three-phase 170-264 VAC

Size: 444×43×500 mm

(W×H×D excluding the screw terminal blocks +22 mm)

Output voltage	+400V	+12VSB
Adjustable output voltage range	240-400 VDC	12 VDC
Rated current/power	16.5 A	0.4 A
At rated voltage operation	6600 W	4.8 W
Rated current/power	18 A typ	0.4 A
At rated current operation	7200 W typ	4.8 W
Min. current	0 A	0 A

1U size slim design

1U size with 43 mm height enables rack mounting



Other feathers

- Clears VCCI Class A for conducted emissions
- Supports CVCC output

(60%-100%) by external voltage input

- Supports three-phase harmonic current regulation (IEC 61000-3-12 compliant)
- Power can be increased by up to 3 units in parallel, and standard accessories are also available.
- Supports output voltage/output current signal Possible to control the output voltage (60%–100%)/output constant current

GP6UT-10K-400-PES Under development

High-voltage/High-capacity output power supply



Continuous max.: **7560-10800 W** Input voltage: Three-phase 180-528 VAC

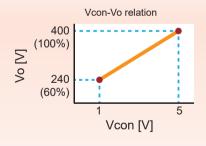
Size: 255×145×460 mm

(W×H×D excluding the screw terminal blocks +22 mm)

Output voltage	+400V	+12VSB
Adjustable output voltage range	240-400 V	12 V
Rated current/power	19.6A typ	0.4A
Rated current/power (230 VAC)	7560W	4.8W
Rated current/power	27A typ	0.4A
(480 VAC)	10800W	4.8W
Min. current	0A	0A

Supports output voltage/output current control signal

Possible to control the output voltage (60%-100%)/output constant current (60%-100%) by external voltage input



Other feathers

- Supports CVCC output
- Supports three-phase harmonic current regulation (IEC 61000-3-12 compliant)
- Supports three-phase 200–480 VAC input
- Low-level heat generation by reducing power loss Achieves high efficiency of 94.5% typ. with 480 VAC input, which reduces heat generation. Also helps to cut work and costs associated with heat management.

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Power supplies for PCs

Enhancing the added value of embedded devices with high reliability of domestic design and production.

(UPS function embedded) Nonstop power supplies for PCs

HNSP5-350P series

Built-in lithium-ion battery inside ATX power supply



Continuous: 245 W Peak: 346 W

Size: 150×85×140 mm

Ideal for replacing existing ATX power supplies

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

Space-saving with no space required for battery installation

Eliminating the need for an external battery and UPS, as the battery pack is built into the



Lead-acid battery pack

Lead-acid battery pack

HNSP9-520P series

ATX power supply with +24V/+48V output are available



Continuous: 400 W Peak: 520 W

- Size: 150×86×140 mm
- 80PLUS BRONZE certified
- Minimum load current 0A for all outputs

BS10A-H24/2,0L Nickel-metal hydride battery pack

Compatible battery packs

BS11A-P24/2.3L

RBS02A-P24/2.3L

HPCSF-400P-X2B

Small-sized SFX power supply



Continuous: 310 W

Peak: 346 W

Size: 125×63.5×125 mm

Compatible battery packs

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

HPCFX-350P-X2B

Small-sized Flex ATX power supply



Continuous: 245 W

Peak: 346 W

Size: 81.5×41×150 mm

Compatible battery packs

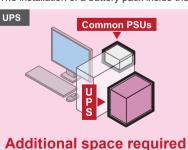
BS28A-H350/2.5L Nickel-metal hydride battery pack

Features of the Nonstop PSU

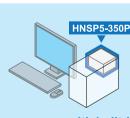
With our unique charging/discharging technology, uninterrupted power backup can be achieved by simply connecting a battery pack to a PSU that supports the feature

Save space by eliminating the external UPS

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.



Saves space by installing the battery inside the PC



Saves more space with built-in-battery inside of the power supply unit

Power feeding with no instantaneous interruption.

Nonstop power supply does not require time to switch to battery operation in case of a blackout.

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High-capacity power supplies for PCs

HPCSA-1500P-E2S

High-capacity/high-efficiency power supply for PC



Continuous: 1200 W Peak: 1500 W

Size: 150×85×200 mm

HPCSA-700P Series

Highly reliable ATX power supply



Continuous: 600 W

Peak: 700 W

Size: 150×85×150 mm

More ATX power supplies available from our lineup.

Medical standard certified PC power supplies

mPCSA-500P-X2S

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



Continuous: 300 W

Peak: 500 W

Size: 150×86×140 mm

mHPCSF-400P-X2S1

IEC60601-1 Ed. 3.2 MOOP certified



Continuous: 310 W Peak: 400 W

Size: 125×63.5×125 mm

mNSP3-450P Series

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



Continuous: 300 W

Peak: 450 W

Size: 150×86×140 mm

900 W ATX

power supply

Nonstop power supply

mHNSP4-1000P Series

IEC60601-1 Ed. 3 MOOP certified



Continuous: 822 W

Peak: 1000 W

Size: 150×85×190 mm

Nonstop power supply

Please use the battery pack, BS25A-H350/2.5L,

Next new products that meet various needs

700 W SFX power supply



500 W Flex ATX power supply

Li-ion battery for Nonstop power supply

1200 W power supply for servers



Harness for 12V-2×6

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Improve Repowering

Just replace the power conditioner? Well, you can do more.

In PV power stations, solar panels also deteriorate with age in addition to the power conditioner and the power generation will drop with time. The speed of deterioration varies depending on the panel and the panel with the highest level of deterioration may affect the power generation of entire string.

MPPT for PV Maximizer operations offer the best performance of energy creation in every PV string without affected by changes in condition.









Degradation of solar panels

In general, the string voltage would drop if solar panels deteriorate. The progress of deterioration varies depending on the panel and strings with deteriorated panels affect other strings with less deterioration, reducing the power generated.

Failures and shades of

Failure of solar panels and those in shades not only drop the power generation of respective panels, but also affect the string, reducing the power generation of entire system.

MPPT for PV Maximizer operations offer the best performance of energy creation in every PV string.

DC/DC converters for solar power generation

PV Maximizer

- Supports a max. input current (operating current) of 14 A
- Remote monitoring/diagnosis of all strings



• High reliability and long life attained because of the elimination of electrolytic capacitors and fans.

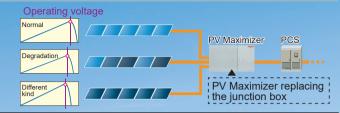
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with PV Maximizer

Mixture of different types of solar panels is possible

There are reports that replacement panels are not available when it is necessary to replace existing solar panels for maintenance purposes,

If a string consists of panels that are different from existing solar panels, their power generation capacity may not be fully utilized. PV Maximizer performs MPPT control for each string. It prevents the drop of string voltage caused by uneven number of panels in series connection and mixture of different panels and maximizes power output.



Individual and optimum control of string operating voltage with PV Maximizer Enable power generation at the maximum point for all strings

The power generation efficiency of PV Maximizer

On the rooftop of Nipron's Hanshin Factory, plots of PV string output and actual measurements of insolation were taken by switching the PV Maximizer ON and OFF every 24 hours. Approximate lines were drawn for actual measurements obtained in both periods in which the control was ON and OFF to compare the power generation amount under the same insolation condition.

Solar plant overview

[Location] Hanshin Factory (Amagasaki, Hyogo)

[Total Generating Capacity] 123.5 kW [Total Number of Strings] 104 rows

[Installation] 2008 Mitsubishi Electric solar panel module (polycrystalline) mpleted in September 2008

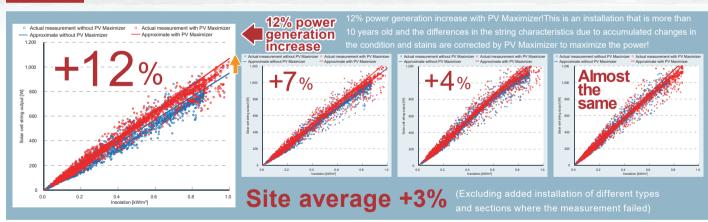
Solar Frontier solar panel module (CIS) 21.76 kW (128 panels)

101.75 kW (550 panels) Over 10 years of operation as solar power generation for roof installation

[Testing Period] April 1st to 30th, 2019

Solar Frontier (CIS) Mitsubishi Electric (polycrystalline)

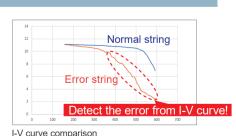
The effectiveness depends on the condition of strings. Especially for old installations, there is a big difference in the effect because of varying conditions of strings and it is assumed that PV Maximizer is more effective for strings with smaller power production



^{*} The examples provided are based on actual measurements from field tests conducted by our company and calculated values derived from these measurements under specific conditions. We do not guarantee that similar results will be obtained in all environments and conditions.

High-precision monitoring system for each string that will not miss abnormalities

PV Guardmyan reports irregular conditions or its signs remotely by managing and analyzing big data (power generation strings) stored on a cloud server and I-V curves show the strings' conditions. By recognizing power generation losses at an early stage, it allows the user to take preventive measures and achieve field maintenance cost reductions.



Measuring I-V curves simultaneously for 365 days a year.

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DC link in-house consumption system





The power generated during the day is consumed in the factory and for charging EVs and the surplus energy is stored in batteries by integrating the PV power generation and batteries. The surplus power will be discharged when the power cannot be generated, such at night, to utilize the power without wasting it.

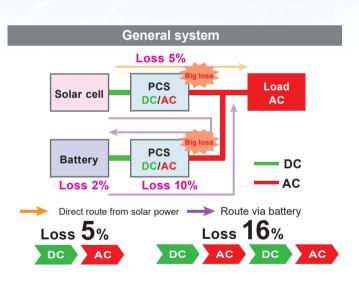
Realize the next generation DC power distribution for small-scale systems

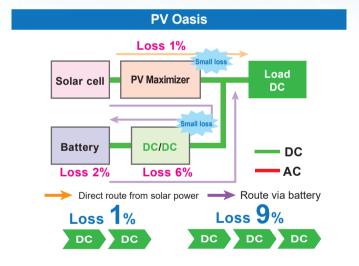
In conventional power storage systems, power conversion from DC to AC and then back to

DC are necessary and power losses are caused.

Since PV Oasis uses a unique power system to connect the PV power to batteries without converting the DC power, it reduces the power loss associated with power conversion compared to conventional systems.

Also, DC compatible devices can be connected and systems can be built with significant reduction in power conversion losses.





Advantages of PV Oasis. ▶▶▶▶

CO₂ reduction

Off-grid operations become possible

Utilizes Japanese lithium-ion battery cells/system

BCP measure against power outages utilizing batteries

Reduce electricity costs and mitigate the risk of price increases

Accelerate promotion of EV charging infrastructure

PV Oasis installation example: P13-14

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DC ground fault detector GFD-DC1000V

Nipron's original circuit design
High voltage and wide range input DC
ground fault detector

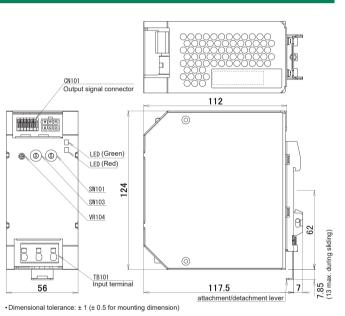
Features

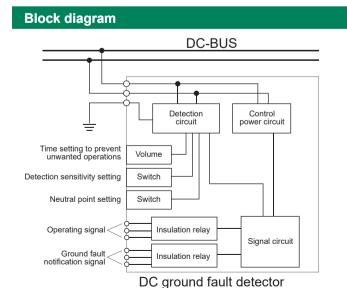
- Wide operating temperature range from -10°C to 70°C
- Wide operating voltage from 50 VDC to 1000 VDC
- Notifies with a signal and LED light when ground fault is detected
- Adjustable detection current in 10 steps from 1 mA to 10 mA
- External power supply is not required.
- Compatible with DINrail mounting

Specification

Items	Specification	Notes	
Input voltage range 50-1000 VDC			
Detection object	Positive ground fault, negative ground fault, positive and negative simultaneous ground fault (*)	*Default: OFF	
Detection sensitivity	1-10 mA	1 mA step 10-level adjustable setting Margin of error ±10%	
Notification method	LED and relay contact output		
Operating (LED)	LED (Green) in operation		
Operating temperature	-10 - 70 °C		
Installation method	DIN-rail installation		
Weight 0.8 kg			
Cooling method	Convection cooling		
Number of installations	One unit only in the non-insulated connection range within the system. (Combination with ground fault detectors produced by other companies is also prohibited.)	It must be electrically insulated from other ground fault detectors to prevent interferences between detectors.	
	Input voltage range Detection object Detection sensitivity Notification method Operating (LED) Ground fault notification (LED) Operating temperature Installation method Weight Cooling method	Input voltage range 50-1000 VDC Detection object Positive ground fault, negative ground fault, positive and negative simultaneous ground fault (*) Detection sensitivity 1-10 mA Notification method LED and relay contact output Ground fault notification (LED) LED (Green) in operation Ground fault positive and negative simultaneous ground fault 1-10 mA LED and relay contact output LED (Green) in operation Ground fault notification (LED) Operating temperature 1-10 - 70 °C Installation DIN-rail installation Weight 0.8 kg Cooling method Convection cooling One unit only in the non-insulated connection range within the system. (Combination with ground fault detectors produced by other companies is	

Outline drawing

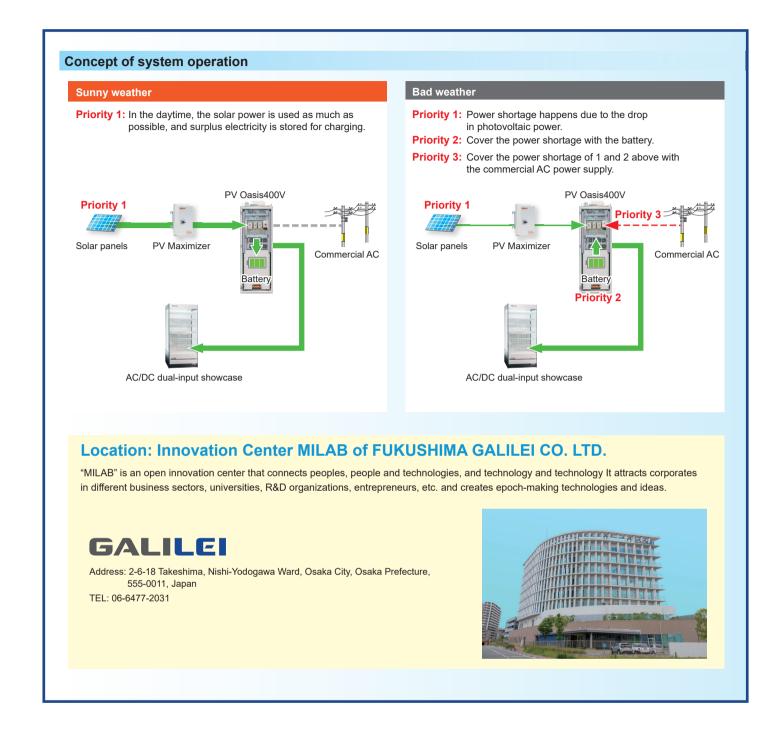




http://www.nipron.com

FUKUSHIMA GALILEI CO.LTD. has introduced PV Oasis at the innovation hub, MILAB.





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The Nipron Story, airperson as told by our Chairperson

I'm going to join the Green Power product sales force!Let's achieve 2 billion yen in Green Power product sales and 10 billion yen in company-wide sales!

All hands on deck for Nipron's 2-billion-yen Green Power product sales

On July 1, 2024, Nipron entered the new fiscal year, its 44th term. In the 42nd term, the fiscal year before last, we achieved record sales of 7.52 billion yen; however, the results of the 43rd term were severe with a 20% reactionary decline. The main cause of this was the significant slowdown in the Chinese economy, which exerted a massive negative impact on the industry as a whole, and this situation will linger through this fiscal year, with the first half of the year still being difficult. Nevertheless, sales are expected to turn toward recovery in the second half year and to increase by 10% or more year-on-year, with products for new customers developed in the previous fiscal year growing and the orders from large customers recovering.

Nipron's 44th beginning-of-term executive meeting held on July 12, 2024, where its sales strategy and policy were announced under the title of "Here's an opportunity to achieve 2 billion yen in Green Power business for 45th term! Toward achieving the long-awaited goal of 10 billion yen," resolved on the sales expansion of Green Power products during the two-year period from the 44th to the 45th term (through the end of June 2026), in a concerted effort of the sales and all other departments.

The key products in this effort are the PV Maximizer (a power supply that maximizes photovoltaic power output) and the cubicle-type PV Oasis Power Storage System (a 100% in-house produced device consisting of in-house developed rectifier power supply, GBM power supply for charging and discharging lithium-ion batteries, ground fault detector, and various switching power supplies), which configure a self-consumption system in combination with an EV charging system that is capable of operating solely with solar power generation and supplying 100% renewable energy.

Many major companies must be now moving into the implementation of their initiatives to address a major issue throughout Japan, or the energy crisis (soaring oil prices and significantly rising electricity prices), and the global issue: decarbonization and CO2 reduction. I assume that many of the companies that purchase Nipron's switching power supplies are looking for ways to cope with the steep rise of costs in their factories which is becoming increasingly required. I also believe that the environmental departments of those companies working to reduce CO2 emissions toward a decarbonized society are waiting for our system proposals that will help them achieve these goals.

As mentioned above, we have decided to make a cross-departmental effort including sales to sell Green Power products. However, the sales department of our power supply business is mainly engaged in selling switching power supplies, and a completely different sales style is needed to propose our Green Power products to major companies. It may also be difficult for the sales department of the power supply business to sell Green Power products because it will be done through the customer company's environmental department or a department in charge of facilities and other internal infrastructure, instead of the department for regular transactions.

Having said that, times are changing dramatically, and the realization of a decarbonized society is a global issue. I believe that major companies are beginning to discuss the need to take a positive approach from CSR and other perspectives. In addition, it does not look like the sharp rise in crude oil prices is going to end anytime soon amid the deteriorating situation in the Middle East and the new Cold War. Particularly in Japan, which is facing one national crisis after another, including the yen's depreciation, the energy crisis is serious, and soaring electricity prices are a major issue that affects business activities. Given that, from a long-term perspective, the shift to inexhaustible. zero-cost solar energy is considered absolutely necessary. If that is the case, I am convinced that our main customers for switching power supplies are strong companies representing their respective industries, and they will listen to the proposals of Nipron, who is a supplier with a close relationship. I believe that this kind of sales activity should be spearheaded by managers, and executives should also be in charge.

In October last year, Nipron built a new factory (Mie Smart Dream Factory) in Taki-cho. Mie Prefecture, to which operations of the former Matsusaka Dream Factory were relocated. The new factory was completed as an in-house consumption model aimed at 100% in-house power generation for the entire factory that demonstrates the PV Oasis Renewable Energy Storage System (capable of simultaneously charging six EVs with renewable energy), which was then under the plan.

We would greatly appreciate it if you could take this opportunity to visit our site that demonstrates this system, which boasts a host of features and functions. We will plan a factory tour and inform you separately

> Setsuo Sakai July 2024



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