

Gen 2 Stabilizer

Yoritsu SDX Series

Smart Stabilizer with IRS Technology powered by AI

Yoritsu Stabilizer was established in 1991 and has been experienced in producing voltage stabilizers for 34 years. After the success of Yoritsu Analog Stabilizer, in 1997 Yoritsu collaborated with Salicru, S.A. Spain, the world's leading digital stabilizer manufacturer.

The AI-powered Stabilizer, SDX Gen 2 is an upgrade of our **Intelligent Response System (IRS)** equipped with AI technology to provide extra protection and safety. SDX Gen 2 also offers intelligence in power management adaptation for household, commercial and industrial devices.

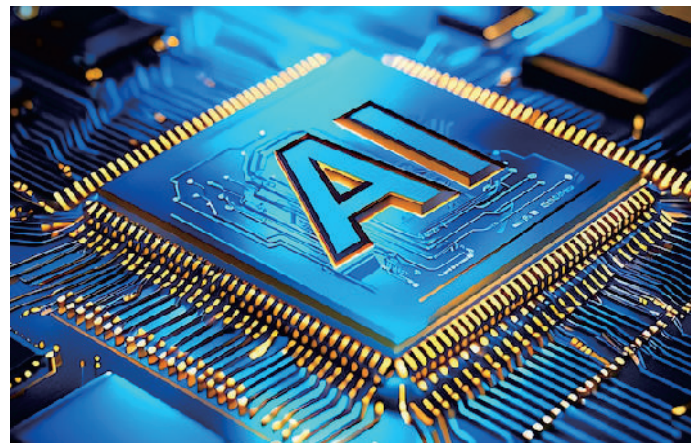
Unlike other stabilizers that turn off the device permanently when critical events occur such as: over/under voltage, overload and overheating.

SDX Gen 2 uses AI for temporary cut-off, protecting the device and minimizing downtime, so that it can resume operation once the stabilizer condition returns to normal.



AI-powered IRS is a comprehensive protection with a "Temporary Cut-Off" feature under certain conditions:

1. initial Starting – not in range 150–250V
2. Overheating – carbon brush > 95°C
3. Under voltage – output voltage < 170V
4. Over voltage – output voltage > 242V
5. Over load – load \geq 110%



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AI-Powered Benefits

- **Intelligent Response System (IRS):** the latest generation with real-time monitoring and protection that monitors the device remains safe and functioning.
- **Seamless Recovery:** automatically restores power once it is detected in a safe state, avoiding prolonged blackouts.
- **Last Defense:** If one of the conditions occurs 3X in 1 hour, AI will perform a "Permanent cut-off".
- **Enhanced Longevity:** Intelligent technology that protects the device and maximizes the stabilizer's lifetime.

How does IRS of SDX Gen 2 integrate AI?

1. **Rule-Based AI:** The stabilizer uses a predetermined "if-then" program/algorithm to dynamically regulate voltage levels, allowing for a "temporary cut-off" until normal conditions return.
2. **Automation and Adaptability:** AI allows the stabilizer to automatically adjust to varying voltage conditions without manual intervention.
3. **Decision Logic :** Uses algorithms to monitor conditions and take corrective actions in real-time. If one of the conditions occurs 3X in 1 hour, the AI will perform a "Permanent cut-off".

AI-Powered Digital Display

IRS
Inside Technology



I/O Selector Button

The button is pressed once to display the Input or Output voltage power values alternately.

Input Indicator

This LED lights up when there is an incoming electric current and goes off when the power is cut off.

Normal Indicator

This LED lights up when the stabilizer is operating normally.

Alarm Status Indicator

This LED lights up one or more, when the stabilizer is experiencing trouble.



Voltage Display

Displays the voltage value of the power Input or Output.

Ampere Display

Displays the ampere value of the power input.

Output Indicator

This LED lights up when there is an electric current coming out and goes off when trouble occurs.

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Yoritsu SDX Series

Technical Specifications & Dimensions

Model	SDX - 2R (Terminal) or SDX - 2C (Socket)	SDX - 3R/3S (Terminal) or SDX - 3C (Socket)	SDX - 5R (Terminal) or SDX - 5S (External MCB)	SDX - 7.5R (Terminal) or SDX - 10S (External MCB)	SDX - 10R (Terminal) or SDX - 10S (External MCB)
Capacity	2000 VA	3000 VA	5000 VA	7500 VA	10.000 VA
Input Voltage	150 - 240 V				
Output Voltage	220 V \pm 1 %				
Phase / Frequency	Single Phase / 45 - 60 Hz				
Response Time	Within 1 second against 10 % input voltage deviation				
Efficiency	Better than 98 % (input voltage 180 V, output voltage 220 V and at rated load)				
Ambient Temperature	-5 deg.C to +40 deg.C				
Ambient Humidity	Less than 90 % (relative humidity)				
Temperature Rise	Less than 75 deg.C (input voltage 180 V, output voltage 220 V and at rated load)				
Cooling System	Convention Cooled/Air Forced				
Control System	DC servo motor				
Dielectric Strength	3000 V for 1 min				
Safety Protection with Temporary Cut-Off	1. Proteksi Starting Awal 3. Proteksi Over Heating 5. Proteksi Over Voltage 2. Proteksi Surge 4. Proteksi Under Voltage 6. Proteksi Overload				
Dimension (D x W x H) (mm)	305 x 170 x 240	320 x 180 x 280	410 x 190 x 310	430 x 220 x 330	430 x 220 x 330
Weight (Kg)	10.60	12.30	19.80	27.50	28.20

* Yoritsu Stabilizer reserve the right to change any or all the specifications indicated or implied without prior notice.



SDX²-2



SDX²-3



SDX²-5



SDX²-7.5



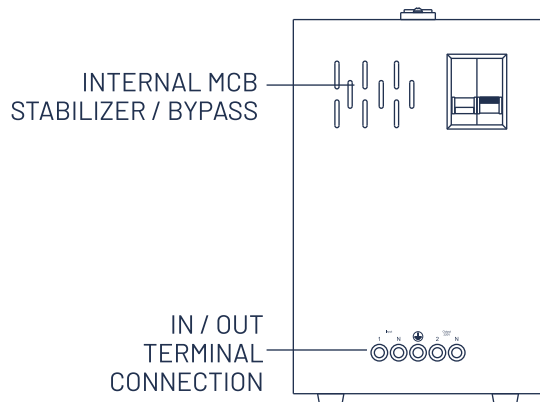
SDX²-10

Gen 2 Stabilizer

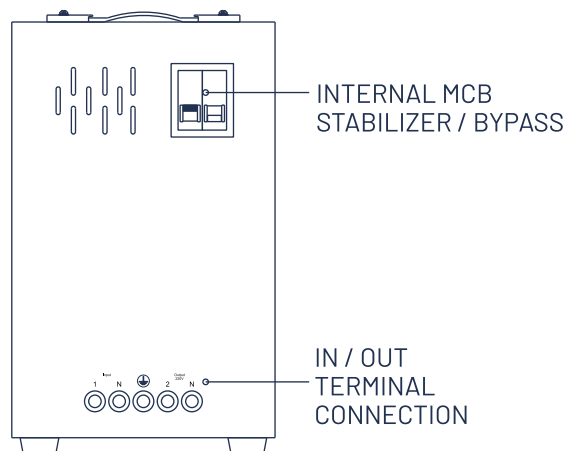
Yoritsu SDX Series

Connections

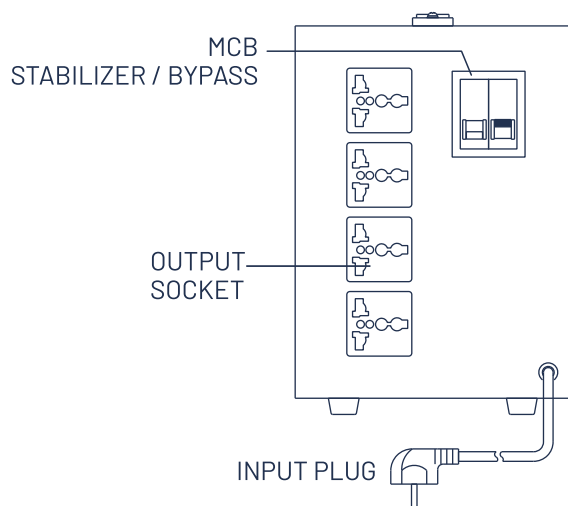
BACK VIEW
SDX-2R / SDX-3R
(Terminal)



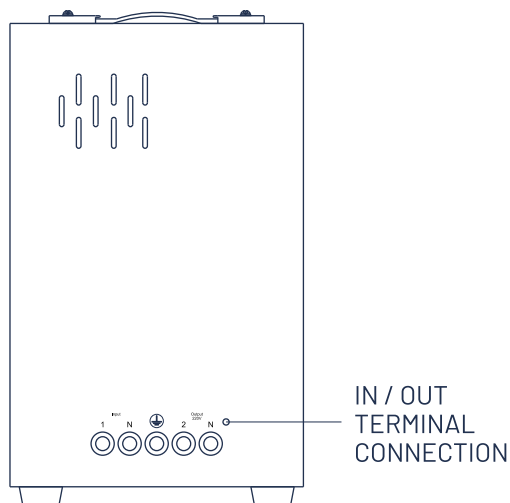
BACK VIEW
SDX-5R / SDX-7.5R / SDX-10R
(Internal MCB)



BACK VIEW
SDX-2C/SDX-3C
(Socket)



BACK VIEW
SDX-5S / SDX-7.5S / SDX-10S
(External MCB)



SDX Gen 2 Applications

- Office Room, Meeting Room, Business Building
- Villa, Luxury House, Living Room, Dining Room, Kitchen
- Schools, University, Kindergarten
- Treadmill, Fitness Center, Game & Arcade Center
- Laboratory, Hospital, MRI Scan, CT Scan
- Lighting Equipment, Photographs Equipment
- Computer, Workstation, Server, Data Center
- Restaurant, Café, Mini mart, Supermarket, Mall Tenant
- Air Conditioning System, Chiller, Refrigerator, Cooler
- TV Broadcast Studio, Radio Studio, Recording Studio



Lab



Data Center



Medical



Telecom



Transportasi



Banking



Network



Retail



Security



Industrial

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