



Load 75W in an ultra-compact size of 35mm

Compact DC Electronic Load

EGS series

Maximum voltage: 18V to 60V
Maximum current: 2A to 10A
Maximum power: 75W

- ▶ Capable of batch control of maximum of 16units with the master/slave function
- ▶ Model lineup with output current control by a 1mA unit available
- ▶ Performed in four modes of Constant current, Constant resistance, Constant voltage, and Constant current + Constant voltage



EGS series

Desktop Size DC Electronic Load

Ultra-thin 35mm-width for space saving and light weight



In conducting evaluation tests of small systems like batteries or power supply circuits, you will consider load device in a compact design.

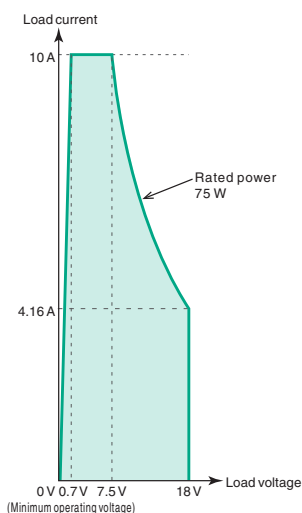
Lineup

	Rated voltage	Rated current	Rated power
EGS75W-18V	18 V	10 A	75 W
EGS75W-36V	36 V	5 A	75 W
EGS75W-60V	60 V	2 A	75 W

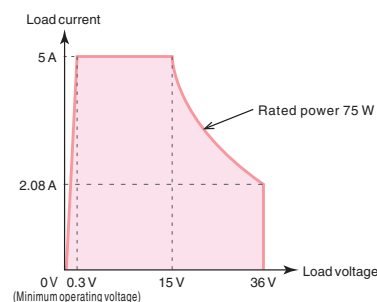
Main Applications

- Simulated load for DC/DC converter. etc.
- Life testing of primary and rechargeable batteries along with DC power supplies
- Sensor simulation in vehicle-mounted testing, etc.
- Impedance variation testing for instrumentation signals
- Evaluation of boards, etc.

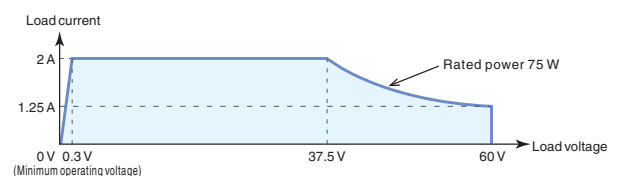
[EGS75W-18V]



[EGS75W-36V]



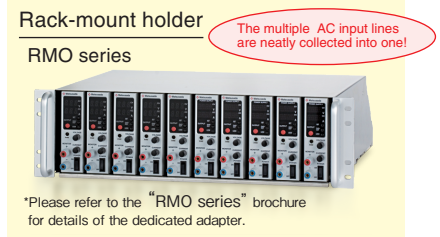
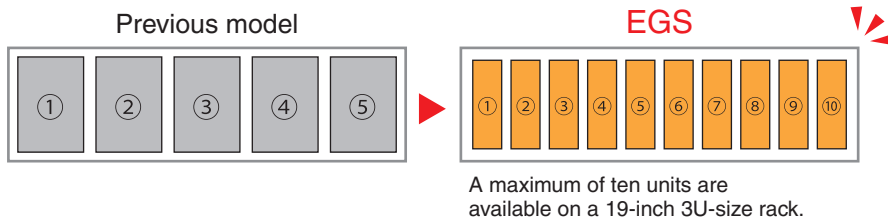
[EGS75W-60V]



Features

Perfect space saving with an extremely compact, lightweight body to suit any customers' space for installation.

While the number of units installed on a 19-inch rack was limited up to about only five as multiple units so far, the EGS units can accept as many as **10 units** in even smaller spaces than usual.



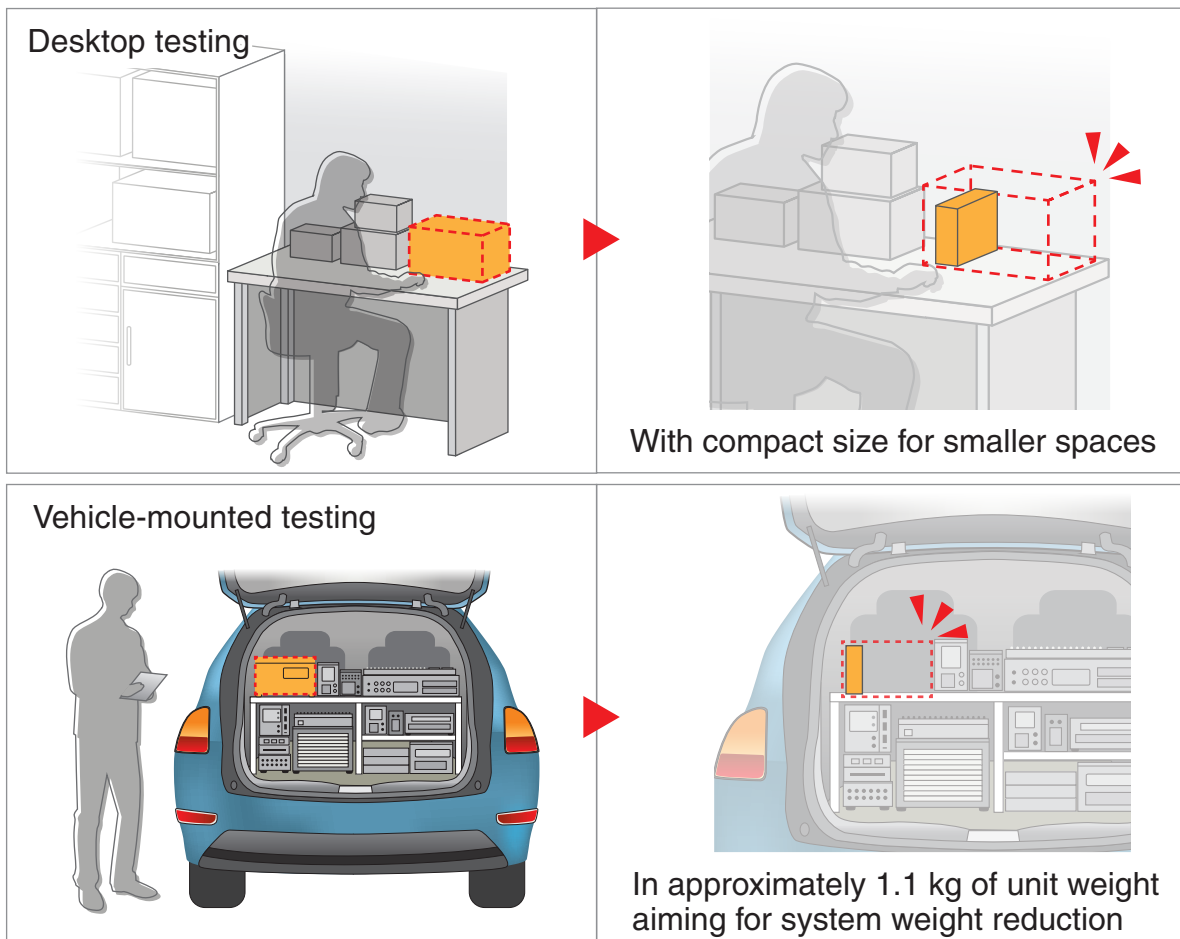
Batch control of up to 16 units with the master/slave function * Please see page 04 for details.

EGS series is available for multi-channel DC electronic load.

Providing four operating modes

- 1 Constant current (CC) mode
- 2 Constant resistance (CR) mode
- 3 Constant voltage (CV) mode
- 4 Constant current (CC) mode + Constant voltage (CV) mode *Available for -LCcv option

Images of Use



General Specifications

Input voltage	100 Vac to 240 Vac, 50 Hz/60 Hz, single phase	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Operating range</th> </tr> <tr> <th>EGS75W-18V</th> <th>EGS75W-36V</th> <th>EGS75W-60V</th> </tr> </thead> <tbody> <tr> <td>Constant voltage (CV) mode</td> <td>0.7 V to 18 V</td> <td>0.3 V to 36 V</td> <td>0.3 V to 60 V</td> </tr> <tr> <td>Constant current (CC) mode</td> <td>0 to 10 A Minimum operating voltage 0.7 V</td> <td>0 to 5 A Minimum operating voltage 0.3 V</td> <td>0 to 2 A Minimum operating voltage 0.3 V</td> </tr> <tr> <td>Constant resistance (CR) mode</td> <td>1.5 Ω to 250 Ω</td> <td>6 Ω to 1000 Ω</td> <td>10 Ω to 1670 Ω</td> </tr> </tbody> </table>		Operating range			EGS75W-18V	EGS75W-36V	EGS75W-60V	Constant voltage (CV) mode	0.7 V to 18 V	0.3 V to 36 V	0.3 V to 60 V	Constant current (CC) mode	0 to 10 A Minimum operating voltage 0.7 V	0 to 5 A Minimum operating voltage 0.3 V	0 to 2 A Minimum operating voltage 0.3 V	Constant resistance (CR) mode	1.5 Ω to 250 Ω	6 Ω to 1000 Ω	10 Ω to 1670 Ω
	Operating range																				
	EGS75W-18V		EGS75W-36V	EGS75W-60V																	
Constant voltage (CV) mode	0.7 V to 18 V		0.3 V to 36 V	0.3 V to 60 V																	
Constant current (CC) mode	0 to 10 A Minimum operating voltage 0.7 V	0 to 5 A Minimum operating voltage 0.3 V	0 to 2 A Minimum operating voltage 0.3 V																		
Constant resistance (CR) mode	1.5 Ω to 250 Ω	6 Ω to 1000 Ω	10 Ω to 1670 Ω																		
Input current	0.3 A typ. @ 100 Vac																				
Operating voltage	[EGS75W-18V] DC 0.7 V to 18 V [EGS75W-36V] DC 0.3 V to 36 V [EGS75W-60V] DC 0.3 V to 60 V																				
Maximum current	[EGS75W-18V] 10 A [EGS75W-36V] 5 A [EGS75W-60V] 2 A																				
Operating mode	Constant voltage mode, Constant current mode, Constant resistance mode																				
Load control	Setting with rotary encoder on front panel																				
Protection circuit	<ul style="list-style-type: none"> - Overcurrent protection (OCP): Turns off load at set value - Overvoltage protection (OVP): Turns off load at set value - Overpower protection (OPP): Turns off load at set value - Undervoltage protection (UVP): Turns off load at set value - Undercurrent protection (UCP): Turns off load at set value * Available for -LCcv option - Overtemperature protection (OTP): Turns off load when internal temperature exceeds 100°C 																				
Display	Voltage 4-digit digital meter (accuracy: 1%FS ±5 dgt), Current 4-digit digital meter (accuracy: 1%FS ±5 dgt)																				
Operation temperature	0 to +40°C																				
Storage temperature	-20°C to +70°C																				
Relative humidity	20% to 80%, no condensing																				
Withstand voltage	Between power input power supply and chassis: AC 1,500 V per minute Between load connection terminal and chassis: DC 400 V per minute																				
Communication function	Operating mode switching, LOAD ON/OFF, Voltage monitor, Current monitor, Load voltage value setting, Load current value setting, and Load resistance value setting																				
Accessories	<ul style="list-style-type: none"> - Input AC cable of 2.5 meters for three-core type in single phase (1 pc) - Basic instruction manual (1 pc) - CO-M cable of 2 meters (1 pc) - Ground plate with screw (1 set) 																				



Digital Interface

The unified control is available with master/slave operation along with USB/LAN/RS-232C/RS-485/GPIB in digital control.

Adapters (separately sold)

- CO-E32m: Adapter for LAN

Total 16 units can be connected to one CO-E32m. LAN cable is not provided.



- CO-U32m: Adapter for USB

Total 16 units can be connected to one CO-U32m. USB cable is not provided.



- CO-MET2-9: Adapter for RS-232C (9 pin)

[D-sub ⇄ Modular jack] Total 16 units can be connected to each CO-MET2-9.



- CO-MET2-25: Adapter for RS-232C (25 pin)

[D-sub ⇄ Modular jack] Total 16 units can be connected to each CO-MET2-25.



- CO-MET4-25: Adapter for RS-485 (25 pin)

[D-sub ⇄ Modular jack] Total 16 units can be connected to each CO-MET4-25.

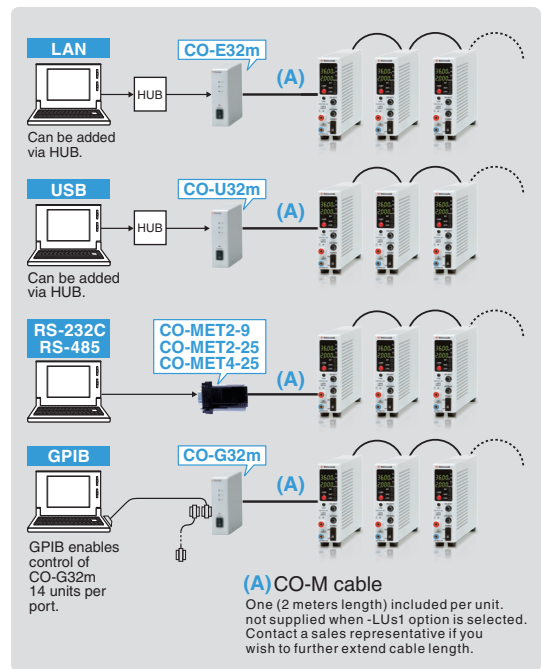


- CO-G32m: Adapter for GPIB

Total 16 units can be connected to one CO-G32m. GPIB cable is not provided.



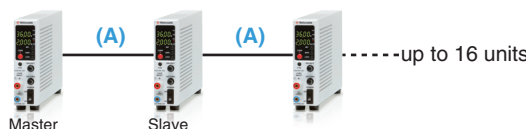
For details, refer to CO/USB series catalogue.



Master/Slave Control

The operations of multiple EGS devices can be controlled from the master device. Up to 16 units can be connected.

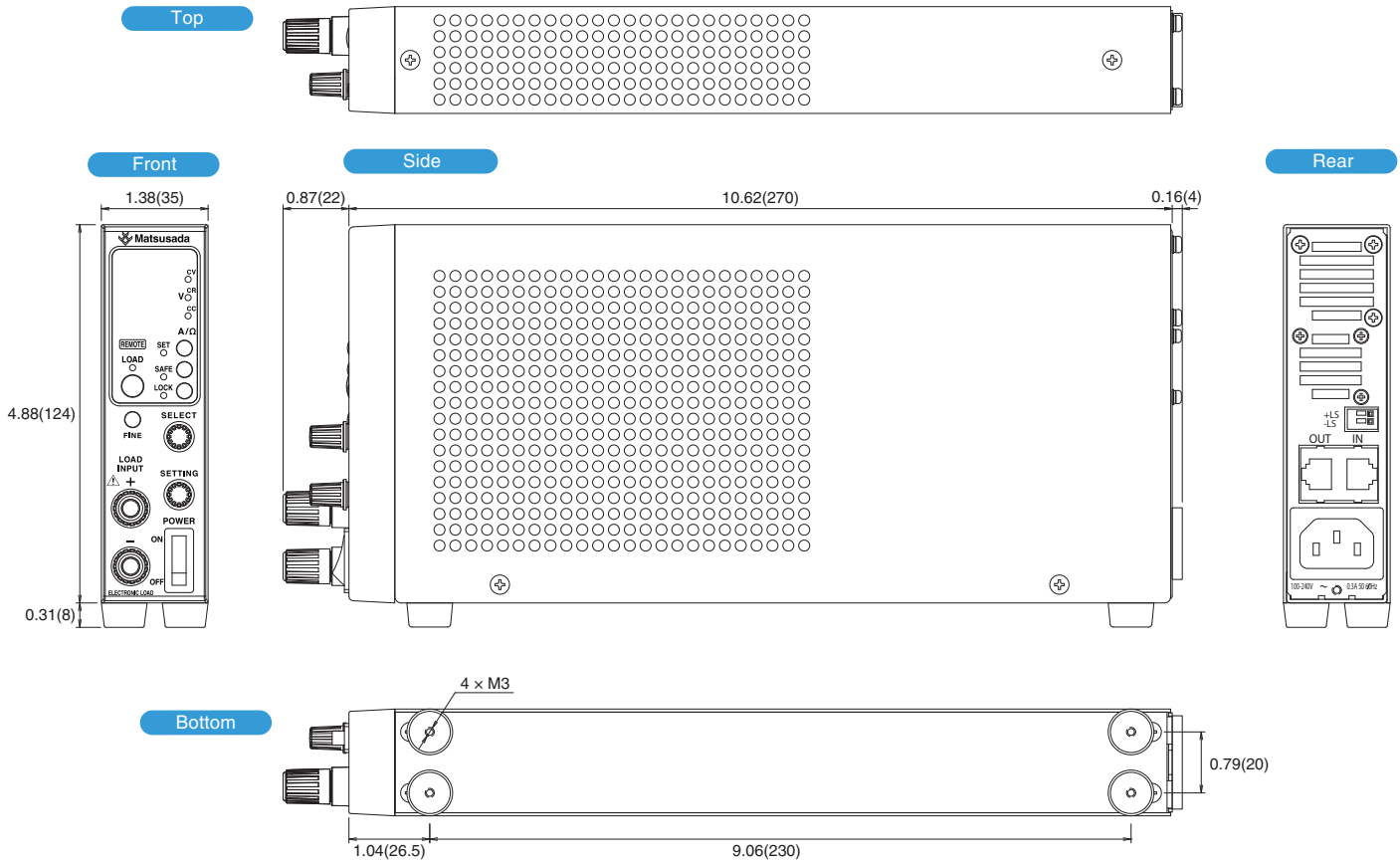
* Not a function for increasing current by parallel connections.



The connection of master/slave control will be made between the same models.

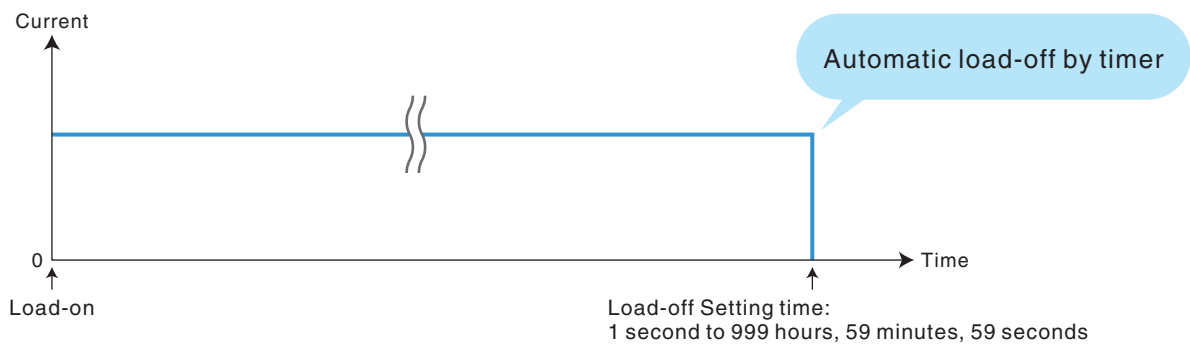
Dimensions [inch (mm)]

Weight approx. 1.1 kg

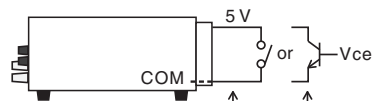


Load-off Timer Function

As the load-off timer function is set through the front panel operation, the elapsed time monitoring starting load-on as well as the automatic load-off are available in a certain period of time. Time can be set from 1 second to 999 hours, 59 minutes, 59 seconds.



External Output ON/OFF



LOAD	Relay	Open collector
ON	Short	Vce 0.4 V or lower
OFF	Open	Vce 2 V or higher

• Sink current 1 mA

Options

- LCcv**: Constant current (CC) mode + Constant voltage (CV) mode, and Undercurrent protection (UCP) are available for this option.
- LH**: The ground voltage between the load connection terminals and chassis is ± 500 Vdc.
- LUs1**: Enable digital control with USB. One power supply can be connected per one USB port which computer equipped. In case the number of USB port of the computer is not enough, use USB HUB. However, it may not work correctly, depending on USB HUB. * It is not available with the Master/Slave function.
OS: Microsoft Windows XP/Vista/7/8/10 (Both 32-bit version and 64-bit version are available.)
 Microsoft Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
- L(Mc0.5), -L(Mc0.15)**: **Communications cable length change** The CO-M cable length can be selected from 0.5 meters or 0.15 meters. (Please choose one of the two cables described above.)

How to order When ordering, add Option No to Model No. <Example> EGS75W-36V-L(Mc0.5)

AC Input Cable

Standard CABLE TYPE 1 125 V/10 A	Sold separately CABLE TYPE 3 250 V/10 A	Sold separately CABLE TYPE 4 250 V/10 A

Accessories (sold separately) Note: EGS is not included in accessories.

Stand



Convenient for using one unit at a time.

Rack-mount holder



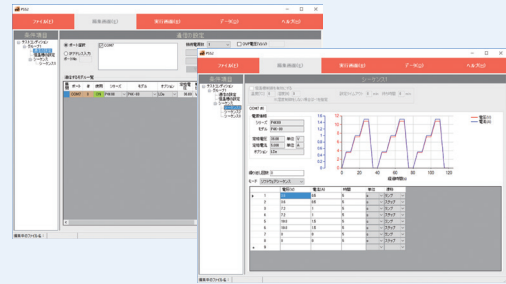
- 10 units/1 rack holder fit in a cabinet, and units can easily be removed individually.
- Ideal for use in systems.
- Fan unit included (AC 100 V)
* Please contact our sales representatives if you plan to use the product outside Japan.
- AC can be aggregated into one system.

Sequence Software for Power Supply/Electronic Load

PSS2en

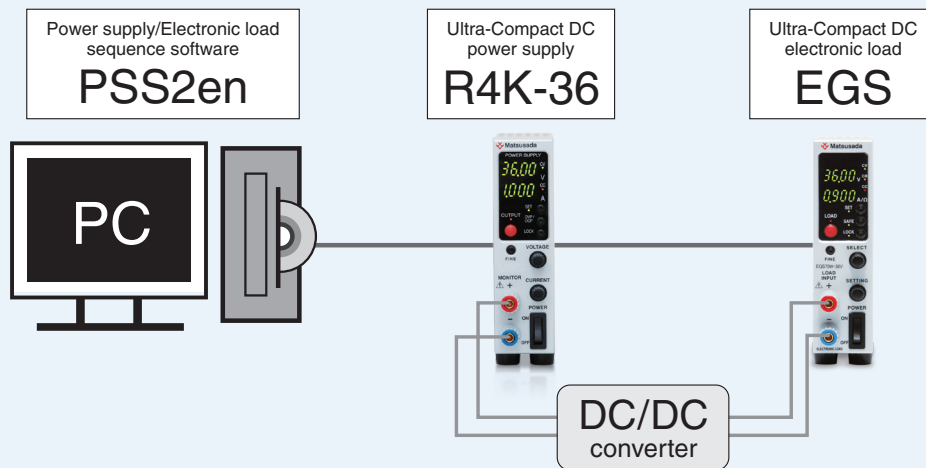
Windows 10 (32-bit/64-bit) compatible

PSS2en, a dedicated software offers sequence operation with easy settings of such Matusada's products like power supplies, electronic loads, and power supply digital controllers. It is highly effective in durability testing of electronic parts, electrical equipment, and automotive electrical equipment along with all types of simulation testing.



- Capable of various sequence settings by simply inputting voltage, current, and time in the sequence sheet.
- Capable of batch control or individual sequence operation of up to 32 of our power supplies and electronic loads.
- Enables testing of continuously changing load temperature and humidity environment by coupling operation with a thermostatic chamber manufactured by ESPEC.

Connection example



Information on Related Products

Detailed individual catalogs are available. Please contact sales representatives of Matusada Precision.



Ultra-Compact Multi-Function DC Power Supply
R4K-36 series

Output voltage: 0 to 40 V
Output current: 0 to 4 A
Output power: 0 to 36 W

- Surprisingly compact size Arrival of "the palm-sized DC power supply"!
- Equipped with numerous convenient functions in addition to 4-digit meter and high-resolution D/A, A/D converter
- Ideal for applications requiring fine current control such as LED evaluation, including models capable of current control in 0.1 mA units



Who We Are

Matsusada Precision Inc. has manufactured High voltage power supplies for more than 50 years in Japan. Recognized by Japanese customers who demand high-quality levels, we have become a high voltage power supply manufacturer which has the highest market share in Japan. Currently, we are developing products not only for high-voltage power supplies, but also for DC power supplies, AC power supplies, electronic loads, high-voltage amplifiers, bipolar power supplies, and X-ray inspection equipment.

We have contributed to customers in various industries such as Semiconductor Production Equipment, Photomultiplier, IGBT, Electrostatic Chuck, Electron Beam, Electrospinning, Plasma, Motor for Electric vehicles, etc.

In addition, we have a direct sales system to respond promptly to customers. Our technical support team with many years of experience will respond promptly from Japan.

Our mission is to deliver products that meet Japan's strict quality standards to customers all over the world. We believe that if you contact us, you will surely find the power supply you need

Matsusada Precision



Matsusada Precision Inc.

Sales office

USA

North Carolina office

TEL(704)496-2644

FAX(704)496-2643

North Carolina office 9:00-17:00

Other country or region

International office in Japan

TEL+81-6-6150-5088

FAX+81-6-6150-5089

International office in Japan 9:00-17:00

We follow-up customers from japan



Contact Us

<https://www.matsusada.com/>