

# Compact HV High Power Supply



REH Series 1.1kW, 3kW, 6.4kW, 15kW, 1000V to 1200V output

1103-02A-1



## FEATURES

- One of the world smallest size in its class of 1000V 15kW
- Extensive safety design from high voltage technology
- High voltage output 1200V
- Wide output power lineup 1.1kW to 15kW
- Ultra low profile and space-saving design with 3.5", 5.2" height
- Ideal for such applications as electrical devices for hybrid automobile, aging for electrical components, safety evaluation testing for solar batteries.

## SUMMARY

REH is high power output supply with higher voltage designed with accumulated know-how by Matsusada Precision, a leading manufacturer of high voltage power supply.

For its compactness REH sit in limited place for production line or test bench.

## LINE UP

Output Voltage (V)	Output Current (A)	Output Power (W)	MODEL		Ripple	
			Positive	Negative	(Vrms)	(Arms)
0 to 1000	0 to 1.1	1.1k	REH1000P-1.1	REH1000N-1.1	1.0	0.1
	0 to 3	3k	REH1000P-3	REH1000N-3	1.0	0.3
	0 to 6.4	6.4k	REH1000P-6.4	REH1000N-6.4	3.0	0.3
	0 to 15	15k	REH1000P-15	REH1000N-15	3.0	0.3
0 to 1200	0 to 10	12k	REH1200P-10	REH1200N-10	3.0	0.3

## SPECIFICATIONS

<b>Input voltage</b>	1.1kW : 230VAC±10% 50/60Hz 1Ø 3kW-15kW : 220VAC±10% 50/60Hz 3Ø	<b>Protection function</b>	Over voltage protection (OVP) Output is cut off at a set value. Setting range: 5% to 110% of rated output Local setting: Potentiometer on front panel Remote setting: External control voltage 0Vdc to 10Vdc Reset: Manual recovery by OUTPUT switch or remote switch.
<b>Input current</b>	1.1kW : 12A typ rush current 90Ap-p 3kW : 15A typ rush current 100Ap-p 6.4kW : 33A typ rush current 100Ap-p 12kW-15kW : 75A typ rush current 150Ap-p		Over temperature protection (OTP) Output is cut off when internal part is heated abnormally. Reset (after the temperature has gone down to normal): Automatic recovery or manual recovery by output switch.
<b>Input current protection</b>	1.1kW : fuse 15A 3kW : fuse 30A 6.4kW : Circuit protector 60A 12kW-15kW : Circuit protector 100A	<b>Other functions</b>	Input brownout(ACF)-Blackout protection Output is cut off when input voltage decreased more than 20% Reset (when normal voltage value or recovery from blackout): Manual recovery by OUTPUT switch or remote switch for blackout protection (re-output protection function). : Automatic recovery when blackout protection is canceled.
<b>Output control</b>	Local: Constant voltage: rotary encoder on front panel Constant current: rotary encoder on front panel  Remote: Constant voltage: external control voltage 0Vdc to 10Vdc or external variable resistor 0Ω to 10kΩ Constant current: external control voltage 0Vdc to 10Vdc or external variable resistor 0Ω to 10kΩ	<b>Transient response time</b>	Recovery time 1ms (for 70↔100% load change)
<b>Voltage regulation</b>	Line: 0.2% of maximum output (for AC±10% input change) Load: 0.2%+2mV of maximum output (for 0% to 100% load change)	<b>Operation temperature</b>	0°C to +40°C
<b>Current regulation</b>	Input: 0.2% of maximum output (for AC±10% input change) Load: 0.2% of maximum output (for 0% to 100% load change)	<b>Storage temperature</b>	-40°C to +85°C
<b>Stability</b>	0.05%/8Hr of maximum output voltage	<b>Strage humidity</b>	0% to 80% RH (no condensation)
<b>Temperature coefficient</b>	0.02% / °C of maximum output voltage 0.03% / °C of maximum output current	<b>Dielectric voltage</b>	Between input power supply and output terminal, and between input terminal and chassis is AC1500V:1 minute (GND side of output terminal and chassis is connected inside)
<b>Output display</b>	Output voltage: 3-digit meter (±1%FS±1digit) Output current: 3-digit meter (±1%FS±1digit)	<b>Accessories</b>	·Instruction manual (1) ·Remote connector cover (1) ·HV output cable shielded 2.5M (In case more than 10m cable, ask to sales representative prior to order)
<b>Monitor output</b>	Output voltage monitor: 10V / maximum output voltage Output current monitor: 10V / maximum output current		

**OPTION**

**-LGob** Optical interface board

Isolation control with optical communication is possible with such interface as GPIB/RS-232C/RS-485/USB.  
For optical interface see separate catalog for digital controller.

**-L(115V)** 115VAC±10% 50/60Hz 1Ø(only for 1.1kW model)

**AC3Øinput cable for more than 10m (with 1m increment)**

**DIMENSIONS inch(mm)**

