

High Power High Voltage DC Power Supply
REH Series



For Power Device and Inverter Testing High Power High Voltage DC programmable power supply

High Power 1.1kW to 15kW High Voltage 750V to 1.2kV

REH series





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Features

- · One of the world's smallest size in its class of 1000V 15kW
- · Ultra low profile and space-saving design with 3.5", 5.2" height
- · Well suited for solar cell characteristic evaluation and power conditioner evaluation. The REH is also ideal for testing inverters and electrical components used in hybrid and electric cars.
- · Extensive safety design from high voltage experience and technology.
- · More than 30kW output is possible by using our CO-MS series digital controller to combine REH power supplies.

Summary

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

The REH's compact design makes it ideal for production lines or test bench.

Lineup

Output Voltage (V)	Output Current	Output Power	MO	DEL	Ripple			
· (V)	· (A)	(kW)	Positive	Negative	(Vrms)	(Arms)		
0 to 750	0 to 20	15	REH750P-20	REH750N-20	0.3	0.5		
0 to 900	0 to 16	14.4	REH900P-16	REH900N-16	0.3	0.5		
	0 to 1.1	1.1	REH1000P-1.1	REH1000N-1.1	0.3	0.1		
0 to 1000	0 to 3	3	REH1000P-3	REH1000N-3	0.3	0.02		
0 10 1000	0 to 6.4	6.4	REH1000P-6.4	REH1000N-6.4	0.3	0.02		
	0 to 15	15	REH1000P-15	REH1000N-15	0.3	0.03		
0 to 1200	0 to 10	12	REH1200P-10	REH1200N-10	0.3	0.03		

Specifications

Input voltage 1.1kW : 230VAC±10% 50/60Hz 1Ø

3kW-15kW: 220VAC±10% 50/60Hz 3Ø

Input current 1.1kW: 11A typ. rush current 90Ap-p

3kW: 14A typ. rush current 100Ap-p 6.4kW: 30A typ. rush current 100Ap-p 12kW-15kW: 68A typ. rush current 150Ap-p

Input current protection 1.1kW : fuse 15A

3kW: fuse 30A

6.4kW : Circuit protector 60A 12kW-15kW : Circuit protector 100A

Output control Local: Constant voltage: 10-turn potentiometer on front panel

Constant current: 10-turn potentiometer on front panel Remote: Constant voltage: external control voltage 0Vdc to

10Vdc or external variable resistor 0Ω to $10k\Omega$

Constant current: external control voltage 0Vdc to 10Vdc or external variable resistor 0 Ω to 10k Ω

Voltage regulation Line: 0.2% of maximum output (for AC±10% input change)

Load: 0.2% of maximum output (for 10% to 100% load change)

Current regulation Input: 0.2% of maximum output (for AC±10% input change)

Load: 0.2% of maximum output (for 10% to 100% load change)

Stability 0.05%/8Hr of maximum output voltage

Temperature coefficient 200ppm / °C of maximum output voltage

300ppm / $^{\circ}\text{C}$ of maximum output current

Output display Output voltage: 3-digit meter (±1%FS±1digit)

Output current: 3-digit meter (±1%FS±1digit)

Monitor output Output voltage monitor: 10V / maximum output voltage

Output current monitor: 10V / maximum output current

 $\label{eq:continuous} Protections \qquad \text{Over voltage protection (OVP) Output is cut off at a set value}.$

Setting range: 5% to 110% of rated output Local setting: 1-turn volume on front panel

Remote setting: External control voltage 0Vdc to 10Vdc Reset: Manual recovery by OUTPUT switch or remote switch.

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 POWER switch.

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.

Other functions Remote switch ON/OFF (TTL or external relay)

Status signal output (CV, CC, FLT)

Transient response time Recovery time 1ms (for 70⇔100% load change)

Operation temperature $0^{\circ}\text{C to } + 40^{\circ}\text{C}$ Storage temperature $-40^{\circ}\text{C to } + 85^{\circ}\text{C}$

Strage humidity 0% to 80% RH (no condensation)

Dielectric voltage 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)

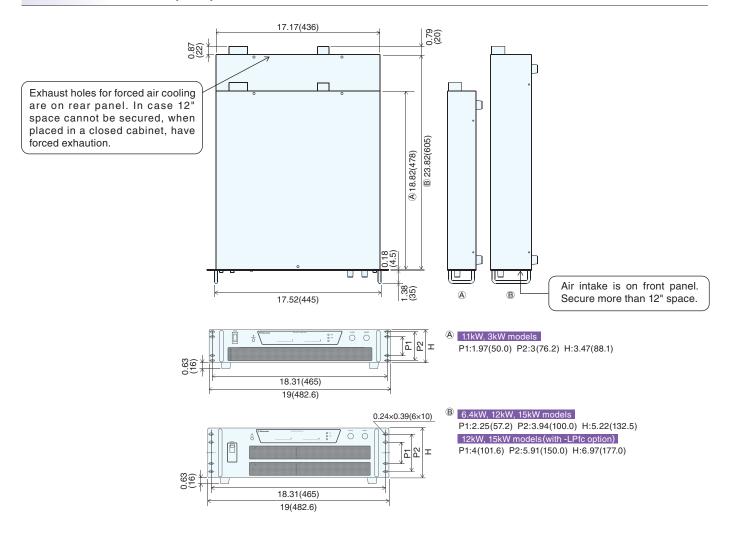
Accessories ·Instruction manual (1)

·Remote connector cover (1)

·HV output cable shielded 2.5M

(In case more than 10m cable, ask your nearest sales office prior to order)

Dimensions inch (mm)



Options

- -LGob Optical interface board
 - Isolation control with optical communication ispossible with such interface as GPIB/RS-232C/RS-485/USB.
 - For optical interface see separate catalog fordigitalcontroller.
- -L(220V) 220VAC ± 10% input (1.1kW model only)
- -L(115V) 115VAC ± 10% input(1.1kW model only)
 - Input current: 20A typ. (input current protection fuse 30A)
- -LOcp Overcurrent protection: Output is cut off at a set value. (one-turn volume on front panel)
- -LPfc Power factor correction circuit
 - [available from greater than 6.4kW. Height for models greater than 10kW is 6.97"(177mm) instead of 5.22"(132.5mm)]
- Low-capacity capacitor for solar cell -LLc
- -L(3m) \ High voltage output shielded cable length change
- Please choose high voltage output cable length from 3, 5, 7 meters.
- -L(5m) } (Please contact nearby sales office if specific length other than above is required)
- -L(400V) 400VAC(ask your nearest sales office)
- AC 3Ø input cable for more than 10m (with 1m increment)

When ordering, suffix the above option mark to the model number. (e.g) REH1000P-15-LGobOcp

REH1000N-1.1-LGobLcOcp(115V) REH750P-20-LGobLcOcpPfc

Alphabetical, input voltage and cable length order



FAX USA/Canada: +1-888-652-8651 Other countries: +81-6-6150-5089

We take custom orders!

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Please fill in your contact information(it is also acceptable to affix your business card).

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Dept.: Title:

Name:

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Customer Inquiry Sheet (REH series)

Please copy this page and above fax number after filling out form below.

■ I would like				
A quota	tion	☐ An explanation of product	☐ A demonststration	☐ To purchase
Other ()	
■ Give us your	requi	rement / comment		
■ Please fill in b	oelow	'.		
Address:				
Company:				
Dept.:			Title:	
Name:				
Tel:			Fax:	
E-mail:				

We warrant that products contained in this catalog (hereinafter, the "Products") are free from defects in material and workmanship under normal use for a period of one (1) year from the date of shipment thereof. However, the warranty period for X-ray detectors and X-ray source shall be either one (1) year from the date of shipment or 1,000 hours, whichever shorter. The above warranty shall not apply to any Product which, at our sole judgment, has been:i)Repaired or altered by persons unauthorized by us; or ii)Connected, installed, adjusted or used otherwise than in accordance with the instructions furnished by us (including being used in an inappropriate installation environment, such as in corrosive gas, high temperature and humidity). We are not liable for any loss, damage or failure of the Products after the shipment thereof caused by external factors such as disasters. If any Product is showed to be defective as satisfactory to us, we, at our sole discretion, repair or replace such defective Products at no cost to the purchaser. We assume no liability to the purchaser or any third party for special, incidental, consequential, or other damages resulting from a breach of the foregoing warranty. This warranty excludes any and all other warranties not set forth herein, express or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose. The Products are not designed and produced for such applications as requiring extremely high reliability and safety, or involving human lives (such as nuclear power, aerospace, social infrastructure facility, medical equipment, etc.). The use under such environment is not covered by this warranty and may require additional design and manufacturing processes.



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