

NEW

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



High Power High Voltage DC Power Supply

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

for

Power Device
Inverter
Power Conditioner
Solar Cell



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.

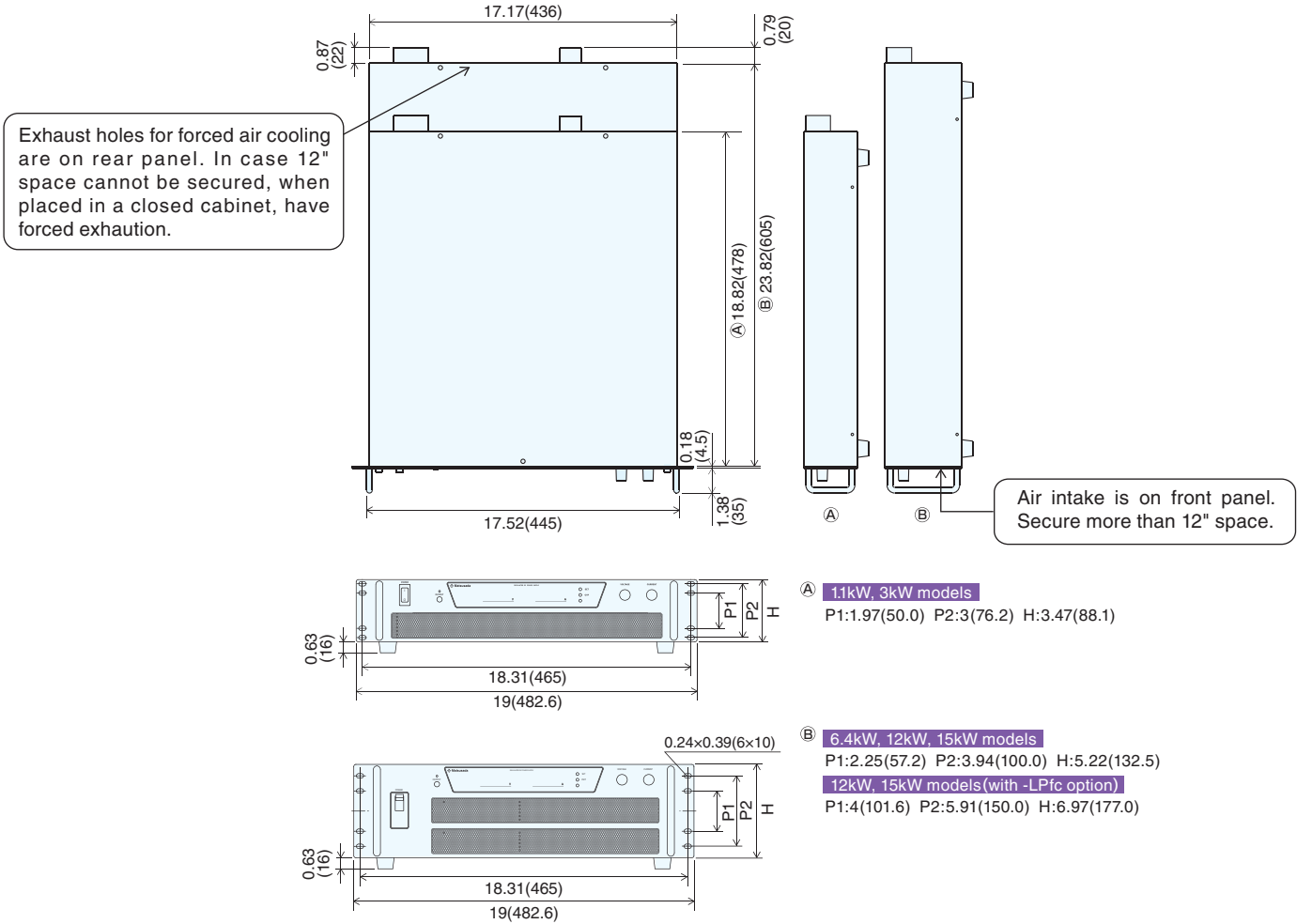
Lineup

Output Voltage (V)	Output Current (A)	Output Power (kW)	MODEL		Ripple	
			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 1000	0 to 1.1	1.1	REH1000P-1.1	REH1000N-1.1	0.3	0.1
	0 to 3	3	REH1000P-3	REH1000N-3	0.3	0.02
	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 \pm 10% 50/60Hz 1 \emptyset 3kW-15kW : 220VAC \pm 10% 50/60Hz 3 \emptyset
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 0 Ω to 10k Ω 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 \pm 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 \pm 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 / $^{\circ}$ C of maximum output voltage 300ppm / $^{\circ}$ C of maximum output current
Output display	Output voltage: 3-digit meter (\pm 1%FS \pm 1digit) Output current: 3-digit meter (\pm 1%FS \pm 1digit)
Monitor output	Output voltage monitor: 10V / maximum output voltage Output current monitor: 10V / maximum output current
Protections	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 \leftrightarrow 100% load change)
Operation temperature	0 $^{\circ}$ C to +40 $^{\circ}$ C
Storage temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ 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 is possible with such interface as GPIB/RS-232C/RS-485/USB.
For optical interface see separate catalog for digital controller.
- L(220V) 220VAC \pm 10% input (1.1kW model only)
- L(115V) 115VAC \pm 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)]
- LLc Low-capacity capacitor for solar cell
- L(3m) } High voltage output shielded cable length change
- L(5m) } Please choose high voltage output cable length from 3, 5, 7 meters.
- L(7m) } (Please contact nearby sales office if specific length other than above is required)
- L(400V) 400VAC (ask your nearest sales office)
- AC 3 ϕ 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

