

# | AC Regulated Power Supply

- ▶ Power supply for production line
- ▶ Power supply for test and experiment



## DR series

**AC** 0~132V, 0~264V  
50/60Hz

## Summary

DR Series is sine wave output AC regulated power supply on which savings in space and labor required of the production or investigation process have been realized. By downsizing, weight reduction, and improvement in the efficiency of large and heavy conventional-AC power, the small design allowing placement anywhere and the reliable operability with maximum basic function have been realized. DR Series is most appropriate to the development of electronic equipment or the investigation process in production lines.

## Features

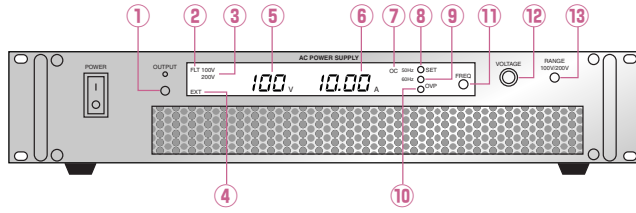
- Small designed and light weight by the switching system (DR1k is 89 mm in height and 10 kg in weight).
- The basic function is placed on the panel for easy operation.
- Output can be selected between 2 ranges of 0 - 132 V and 0 - 264 V, and frequency can be selected between 50 and 60 Hz.
- Appropriate for motors with a high peak value since the peak current can be flown up to 2.5 times as much as the rated current.
- Remote operation is available.
- Output ON/OFF, Frequency change, change in frequency range, and output voltage setting can be remotely controlled.
- Power factor improving circuit stored provides high efficiency (0.9 or more).

## Lineup

MODEL	Maximum output current		Maximum output voltage
	Lo (100 V) range	Hi (200 V) range	
DR 500	5.00A	2.50A	500VA
DR 1k	10.0A	5.00A	1kVA
DR 1.5k	15.0A	7.50A	1.5kVA
DR 2k	20.0A	10.00A	2kVA

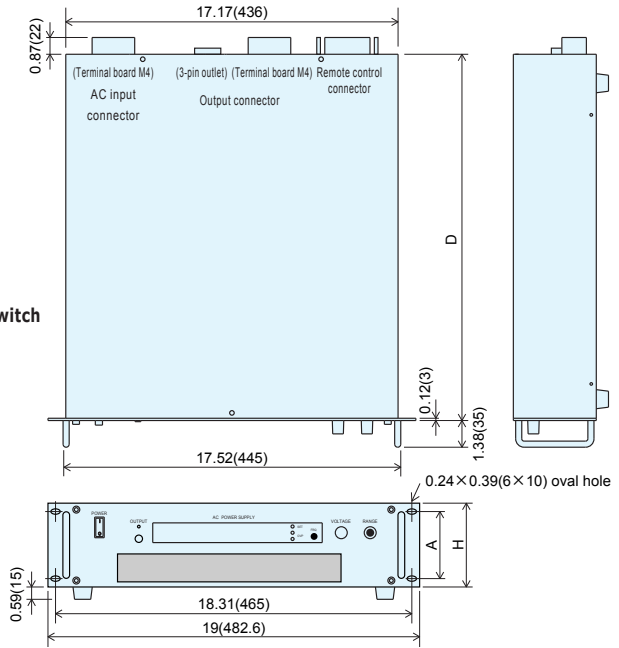
# Functions

Front panel



- ① OUTPUT ON/OFF switch
- ② Abnormality indication
- ③ Voltage range indication
- ④ Remote mode indication
- ⑤ Voltmeter
- ⑥ Ammeter
- ⑦ Overcurrent indication
- ⑧ Output voltage and overcurrent presetting switch
- ⑨ OVP setting switch
- ⑩ OVP setting volume
- ⑪ Frequency select switch
- ⑫ Output voltage setting volume
- ⑬ Voltage range select switch

# Dimensions inch(mm)



MODEL	H	A	D	Weight typ.
DR 500	3.5(89)	3(76.2)	18.98(482)	8kg
DR 1k				10kg
DR 1.5k				12kg
DR 2k	5.24(133)	2.25(57.2)	21.65(550)	16kg

# Specifications

**Input voltage** DR500, 1k: 85 VAC - 132 VAC, DR1.5k, 2k: 176 VAC - 264 VAC Both at 50/60Hz  $\pm 1\phi$

**Efficiency** 77 % (100V at rated output)

**Power factor** 1 - 0.9

**Output voltage setting range** Lo (100 V) range: 0 - 132 V  
Hi (200 V) range: 0 - 264 V

**Number of output phase** Single-phase

**Output frequency** Selection between 50 and 60 Hz

**Maximum output peak current** 2.5 times as high as maximum output current (crest factor=2.5)

**Output voltage control** Voltage range: selected between Lo (100 V) and Hi (200 V) with front panel select switch  
Voltage is variable:  
- Locally by front panel 10-turn potentiometer  
- Remotely by external control voltage at Vcon-in=0 - 10 Vdc

**Output frequency selection** Select between 50 and 60 Hz with front panel select switch

**Ripple** 0.2 %F.S

**Fluctuation ratio** For input: 0.5 % (with change of AC  $\pm 10\%$ )  
For output: 1 % (with 0 - 100 % load variation)

**Voltage stability** 0.05 %/Hr

**Voltage temperature coefficient**  $\pm 0.05\%$ /°C

**Frequency temperature coefficient** Within 0.1 Hz (in case of environmental change of +10 °C)

**Output waveform distortion factor** 2 % or lower (in 20°C environment)

**Frequency setting accuracy** Within  $\pm 0.2$  Hz

**Output indication** Output voltage: 3-digit digital meter (Effective value indication accuracy: 1.5 %F.S  $\pm 1$  dgt.)  
Output current: 3.5-digit digital meter (Accuracy: 1.5 %F.S  $\pm 1$  dgt.)

**Protective circuit** Output short-circuit protection, overvoltage, overcurrent, low input voltage, overtemperature protection

**Other function** Remote switch ON/OFF (TTL or external relay)  
Door switch (external relay)  
Remote voltage range selection, remote frequency selection, fault (FLT) status output

**Operation temperature** 0 to +40°C

**Preservation temperature** -40 to +85°C

**Preservation humidity** 0 - 80 %RH (without any condensation)

**Output terminal** 3P outlet, terminal board

**Accessories** Input AC cable 2.5 m long, for 1  $\phi$ , 3-core type  $\times$  1  
Instruction manual  $\times$  1

# Options

## -LGb GPIB interface board

Remote switch ON/OFF, voltage range selection, variable voltage, frequency selection, overload status, voltage/current monitor

## -LGob Optical GPIB/RS-232C/RS-485/USB interface board

Remote switch ON/OFF, voltage range selection, variable voltage, frequency selection, overload status, voltage/current monitor

**-LN** AC output is tuned ON/OFF by turning AC ON/OFF.

To order Attach the option marking after the model name.  
<Example> DR1.5k-LGbN