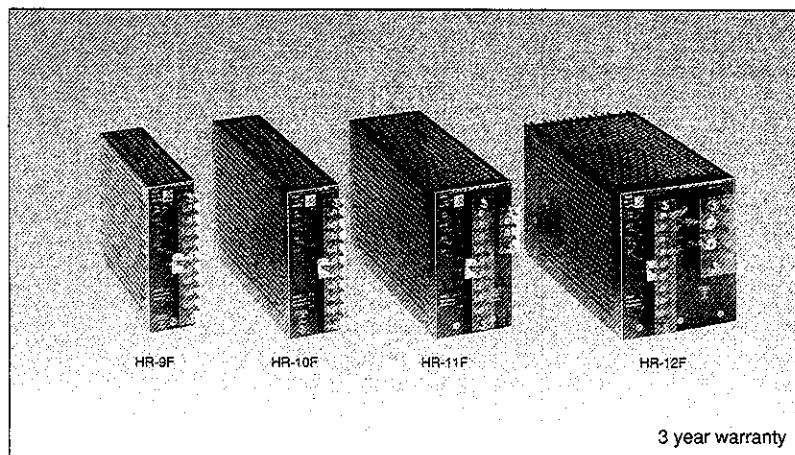




Model name HR-9F-5

Name of series Shape of chassis Nominal output voltage
9F: 30W (5V output)
10F: 50W (5V output)
11F: 100W (5V output)
12F: 150W (5V output)

Features

- Full option: remote sensing, remote on/off control available for all models
- Input voltage range: 90 ~ 132VAC
- 49 models
- Operating ambient temperature range: -10 ~ +71°C
- Low line and load regulation, low output ripple & noise
- 3 year warranty

Specifications

1. Input voltage range	90 ~ 132VAC (47 ~ 440Hz), DC115 ~ 180V
2. Output voltage range	±10%
3. Line and load regulation	Line regulation: 0.4% (2V output: 20mV), Load regulation: 0.4% (2V output: 20mV)
4. Maximum ripple & noise	50mV: 2V ~ 6V output, 60mV: 9V ~ 15V output, 80mV: 18V ~ 28V output 90mV: 30V ~ 36V output, 100mV: 48V output
5. Cooling	Convection cooling
6. Operating ambient temperature (Standard mounting)	-10 ~ +71°C: 60% at -10°C, 100% at 0 ~ +50°C, 70% at +60°C, 50% at +71°C +61 ~ +71°C: Forced air cooling
7. Withstand voltage	Input-chassis : 2kVAC, Input-output: 2kVAC for 1 min.
8. Safety standard	Approved by UL1950-D3
9. EMI	Conforms to FCC class A
10. Functions	Over voltage protection, Over current protection, Remote sensing, Remote on/off control

Product lineup

Model name		Nominal output voltage	Max. output current	Max. output power	UL
HR-9F	HR-9F-2	2V	6A	12W	○
	HR-9F-5	5V	6A	30W	○
	HR-9F-6	6V	5A	30W	○
	HR-9F-9	9V	3.8A	34.2W	○
	HR-9F-12	12V	3A	36W	○
	HR-9F-15	15V	2.6A	39W	○
	HR-9F-18	18V	2.3A	41.4W	○
	HR-9F-20	20V	2.1A	42W	○
	HR-9F-24	24V	1.8A	43.2W	○
HR-9F-28	28V	1.6A	44.8W	○	
HR-10F	HR-10F-2	2V	10A	20W	○
	HR-10F-5	5V	10A	50W	○
	HR-10F-6	6V	8.5A	51W	○
	HR-10F-9	9V	6A	54W	○
	HR-10F-12	12V	5A	60W	○
	HR-10F-15	15V	4A	60W	○
	HR-10F-18	18V	3.5A	63W	○
	HR-10F-20	20V	3.5A	70W	○
	HR-10F-24	24V	3A	72W	○
	HR-10F-28	28V	2.5A	70W	○
	HR-10F-30	30V	2.3A	69W	○
	HR-10F-36	36V	2A	72W	○
	HR-10F-48	48V	1.5A	72W	○

Model name		Nominal output voltage	Max. output current	Max. output power	UL
HR-11F	HR-11F-2	2V	20A	40W	○
	HR-11F-5	5V	20A	100W	○
	HR-11F-6	6V	17A	102W	○
	HR-11F-9	9V	12A	108W	○
	HR-11F-12	12V	10A	120W	○
	HR-11F-15	15V	8A	120W	○
	HR-11F-18	18V	6.5A	117W	○
	HR-11F-20	20V	6A	120W	○
	HR-11F-24	24V	5A	120W	○
	HR-11F-28	28V	4A	112W	○
	HR-11F-30	30V	4A	120W	○
	HR-11F-36	36V	3A	108W	○
HR-12F	HR-11F-48	48V	2.5A	120W	○
	HR-12F-2	2V	30A	60W	○
	HR-12F-5	5V	30A	150W	○
	HR-12F-6	6V	26A	156W	○
	HR-12F-9	9V	18A	162W	○
	HR-12F-12	12V	15A	180W	○
	HR-12F-15	15V	12A	180W	○
	HR-12F-18	18V	10A	180W	○
	HR-12F-20	20V	8A	160W	○
	HR-12F-24	24V	7.5A	180W	○
	HR-12F-28	28V	6.5A	182W	○
	HR-12F-30	30V	6A	180W	○
	HR-12F-36	36V	5A	180W	○
	HR-12F-48	48V	3.8A	182W	○

- Request customer specification for further details of specifications, outline, characteristics, etc. Read the instruction manual before usage.
- Contact us about delivery before ordering.

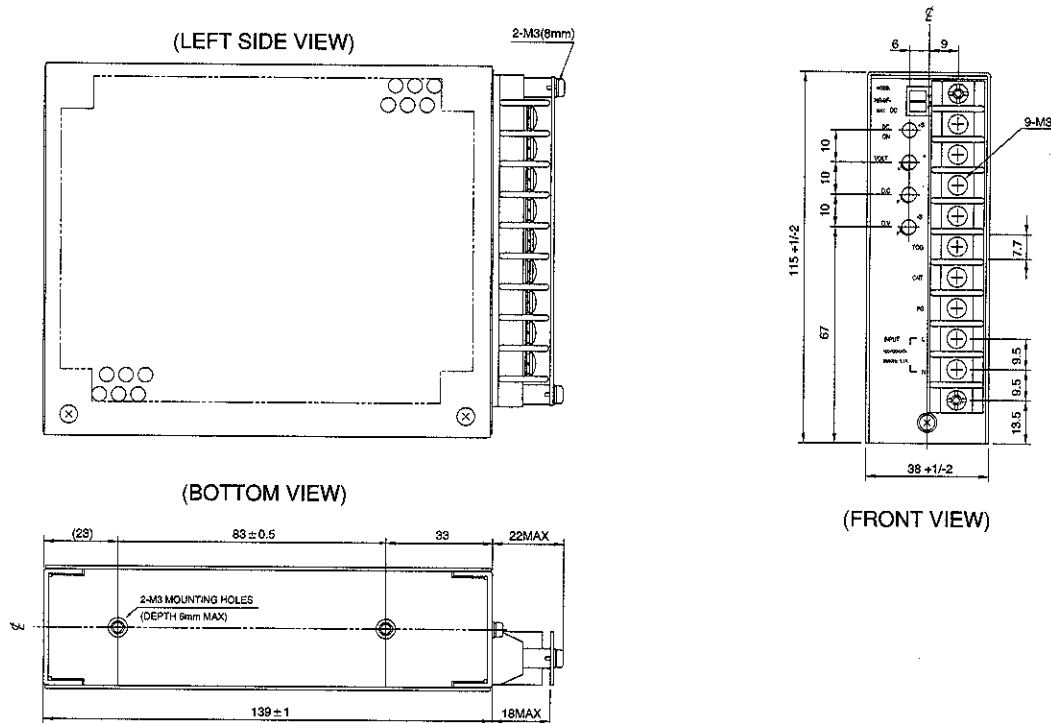
○ : Safety standard approved
△ : Conforms to safety standard

HR-SERIES

LAMBDA
DENSEI-LAMBDA

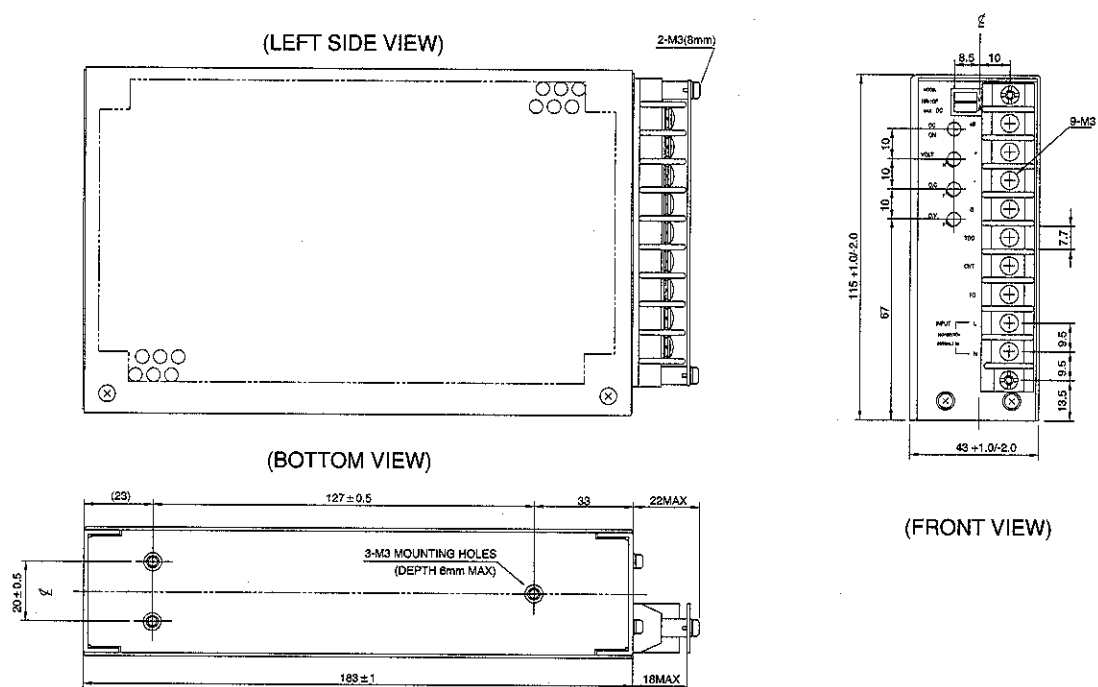
Unit Type Power Supply

■ HR-9F



(Unit: mm)

■ HR-10F

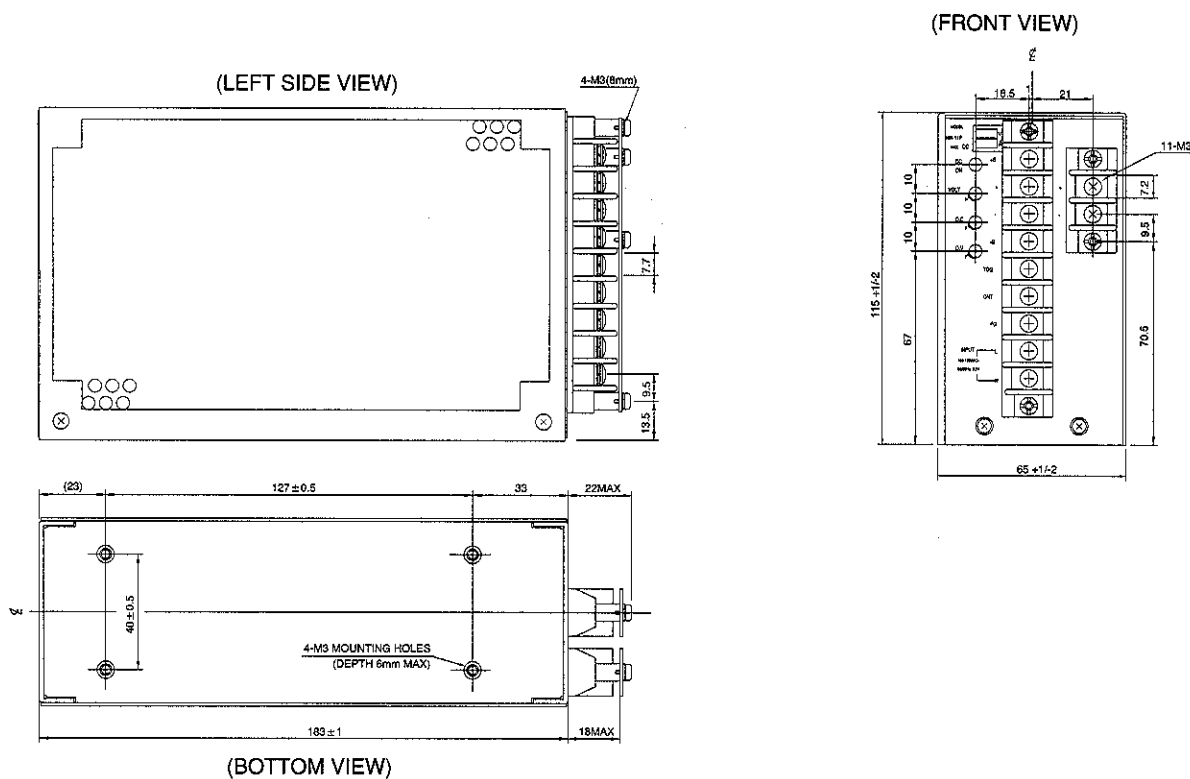


(Unit: mm)

HR-SERIES

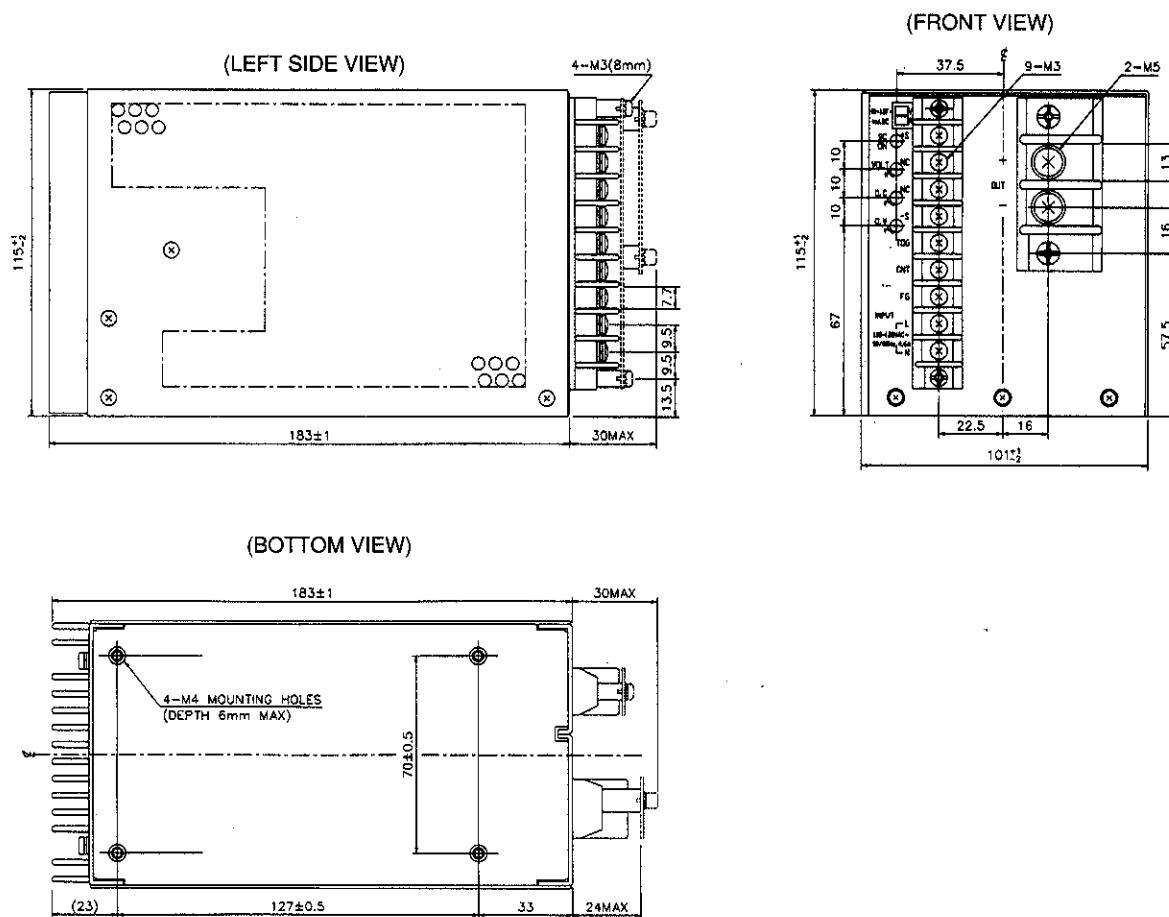
LAMBDA
DENSEI-LAMBDA

■ HR-11F



(Unit: mm)

■ HR-12F



(Unit: mm)