

**NEW**

# K12-R series

— 12W polarity reversible —



- > Ideal for SEM · MASS
- > High stability 0.001%/5min
- > Ultra low noise
- > Output polarity change by external signal
- > Output voltage monitor
- > Constant current control is available(option)

## SUMMARY

The K12-R series is an ultra low noise, highly stable HV power supply in a compact size. The output polarity can be switched using an external signal.

## LINEUP

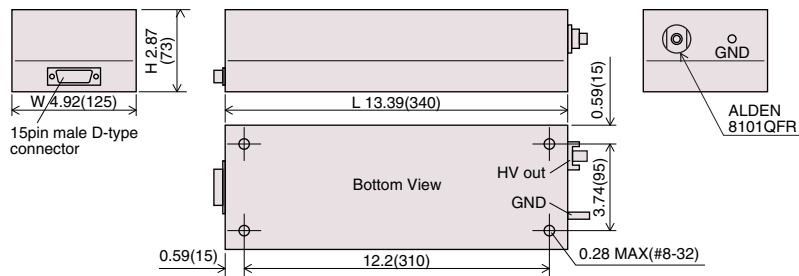
Output Voltage	Output Current	Model	Ripple(p-p)
0 to ±10kV	1.2mA	K12-10R	70mV
0 to ±15kV	800μA	K12-15R	70mV
0 to ±20kV	600μA	K12-20R	70mV
0 to ±30kV	400μA	K12-30R	70mV

## SPECIFICATIONS

<b>Input Voltage</b>	+24Vdc ±1V
<b>Input Current</b>	1.3A TYP
<b>Output Voltage Control</b>	0 to 10Vdc
<b>Reverse Polarity Control</b>	TTL (Reversing time 1.2sec typ)
<b>Line Regulation</b>	±0.001% of max for ±1V input change
<b>Load Regulation</b>	±0.001% of max for 50% to 100% load change
<b>Stability</b>	0.001%/5min 0.005%/Hr (after 3Hr warm-up) 0.01%/Hr (after 1/2Hr warm-up)
<b>Temperature Coef.</b>	0.0025%/°C
<b>Monitors</b>	Voltage : 0 to 10Vdc Current : 0 to 10Vdc
<b>Protection</b>	Overvoltage and short circuit
<b>Temperature range</b>	Operating : 0 to 40 °C Storage : -20 to 60 °C
<b>Accessory</b>	HV flying lead with HV-PLUG(3.3feet : 1m length) Mating signal connector(15pin female D-type)

Note : These specifications are at the maximum rated output after a warm-up period.

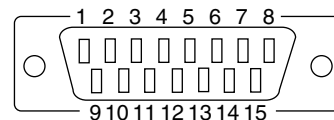
## DIMENSIONS inch(mm)



## OPTION

- LCs** -CV/CC Control(automatic crossover)
- Control mode(CV/CC) status output
  - With reference voltage external potentiometer can be used.
  - Local potentiometer for CV/CC.

## D-Sub CONNECTOR ASSIGNMENT



- 1 Int. pott cv \*
- 2 Output Voltage Control 0 to 10V
- 3 Int. pott cc \*
- 4 Output Current Control 0 to 10V \*
- 5 Output Voltage Monitor 0 to 10V
- 6 Reverse Polarity  
TTL "Hi" is Positive  
TTL "Lo" is Negative
- 7 COM(for PIN 2, 4, 5, 6, 11, 12, 13, 14)
- 8 +24V DC Input Return
- 9 +24V DC Input
- 10 +24V DC Input Return
- 11 CV/CC Status \*
- 12 HV ON/OFF(GND = ON, OPEN = OFF)
- 13 Output Current Monitor 0 to 10V
- 14 Ref.+10V out \*
- 15 +24V DC Input

\* : Only for unit with LCs option.

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