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TECHNOLOGY GROUP

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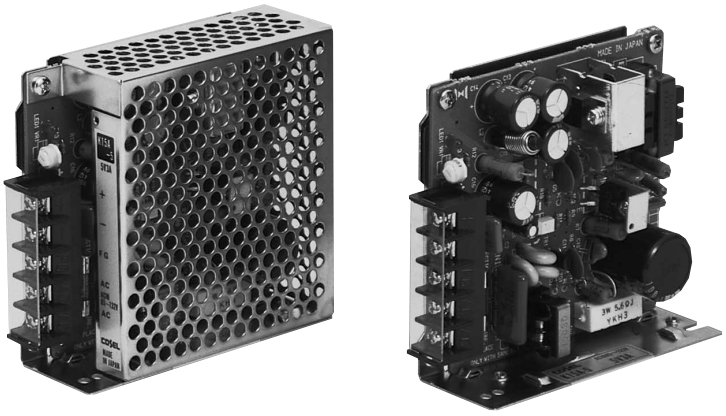
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Find the *Cosel / Elco K50AU-5* at our website: ***Click HERE***

K15A

COSEL®

K



- Small size
- UL recognized, CSA certified
- Built-in inrush current and overcurrent protection circuits
- Two-year warranty

■ ORDERING INFORMATION

K15A □-5-□

- Optional:Ex. Connector type:J
- Output voltage
- UL recognized, CSA certified:U
- Output wattage
- Series name

SPECIFICATIONS

	MODEL	K15A-5	K15A-12	K15A-15	K15A-24
INPUT	VOLTAGE/ CURRENT	AC85~132V 1φ or DC110~170V / 0.33A typ (ACIN 100V, Io=100%)			
	FREQUENCY	47~440Hz or DC			
	INRUSH CURRENT	25A typ (ACIN 100V, Io=100%)			
	EFFICIENCY	67% typ	71% typ	72% typ	74% typ
OUTPUT	VOLTAGE [V]	5	12	15	24
	CURRENT [A]	3.0	1.3	1.0	0.7
	WATTAGE [W]	15.0	15.6	15.0	16.8
	LINE REGULATION [mV]	20max	48max	60max	96max
	LOAD REGULATION [mV]	40max	100max	120max	150max
	RIPPLE [mVp-p]	80max	120max	120max	120max
	RIPPLE NOISE [mVp-p]	120max	150max	150max	150max
	TEMPERATURE COEFFICIENT 0 ~ +50°C [mV]	50max	120max	150max	240max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	±10%			
	START-UP TIME [mS]	100max (ACIN 85V, Io=100%)			
	HOLD-UP TIME [mS]	16typ (ACIN 85V, Io=100%)			
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
ISOLATION	INPUT-FG,OUTPUT	AC1500V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
	OUTPUT-FG	AC 500V ,1minute, DC500V, 50MΩmin. (At Room Temperature)			
ENVIRONMENT	OPERATING TEMP. AND HUMID.	0~+70℃, 30~90%RH (Non condensing) (Refer to DERATING CURVE)			
	STORAGE TEMP. AND HUMID.	−20~+75℃, 20~90%RH (Non condensing)			
	VIBRATION	10~55Hz 1G, 3 minutes period, 30 minutes along X, Y and Z axis			
	IMPACT	10G, 20mS, once each X, Y and Z axis			
SAFETY AND NOISE REGULATIONS	SAFETY REGULATIONS	Recognized UL1950 (D3) , certified CSA Electrlcal Bulletin No.1402C			
	CONDUCTED NOISE	Complies with FCC-A			

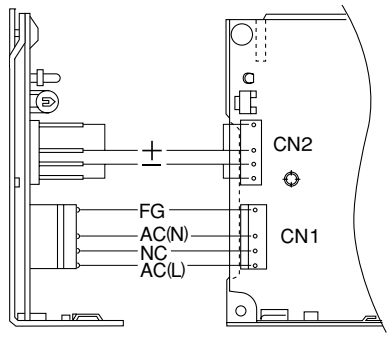
※ Avoid prolonged use under over-load.
※ Derating is required when operated with case cover.
※ Parallel operation with other model is not possible.

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MODEL	K15A-5	K15A-12	K15A-15	K15A-24
OUTPUT VOLTAGE [V]	5	12	15	24
OUTPUT CURRENT [A]	3.0	1.3	1.0	0.7

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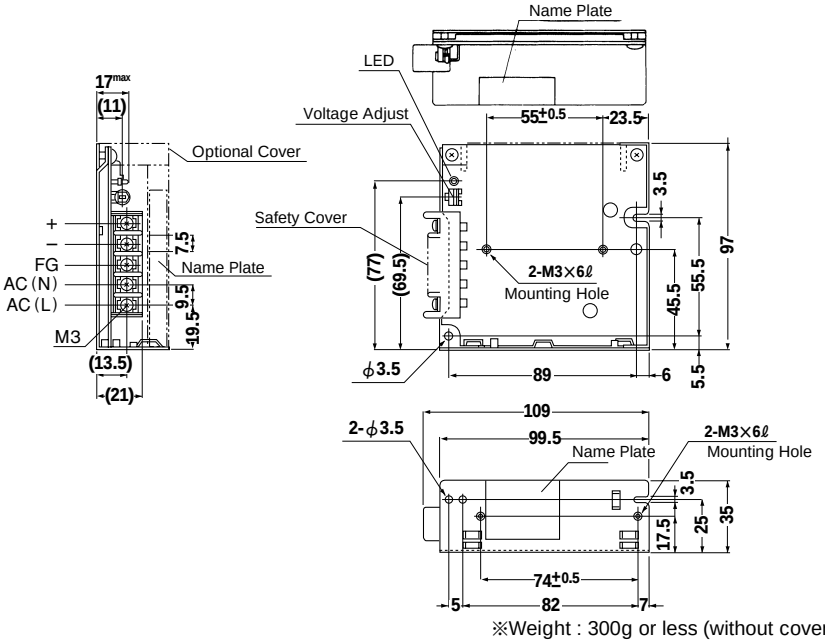
■EXTERNAL VIEW



Mfr : Molex

I/O Connector		Mating Connector (Terminal)
CN1	5289-4A	5199-04 (5194)
CN2	5287-4A	5199-04 (5194)

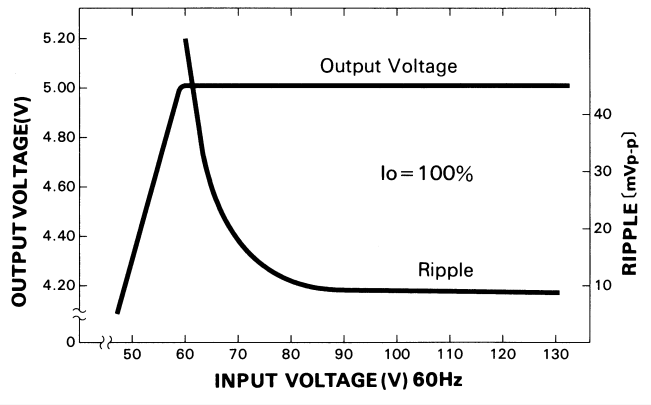
Connector type



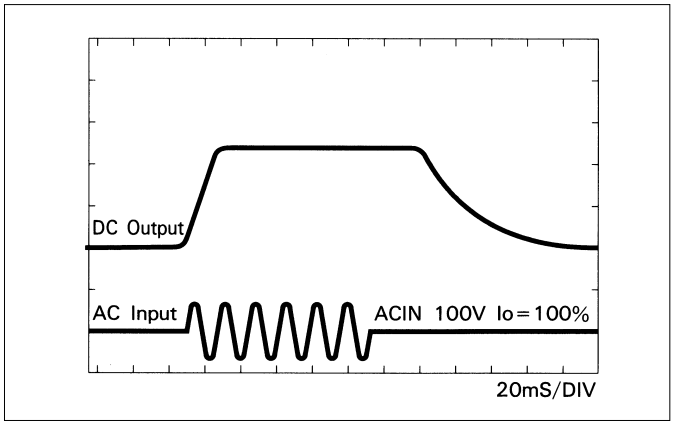
Barrier strip type

※Weight : 300g or less (without cover)
※Cover is optional
※Tolerance : ±1 ※Dimensions in mm.

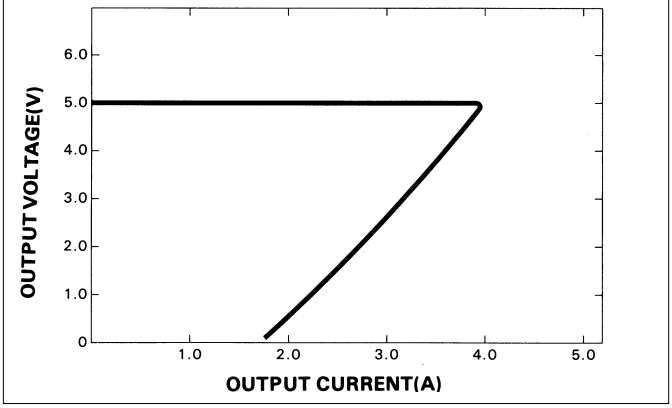
■STATIC CHARACTERISTICS (K15A-5)



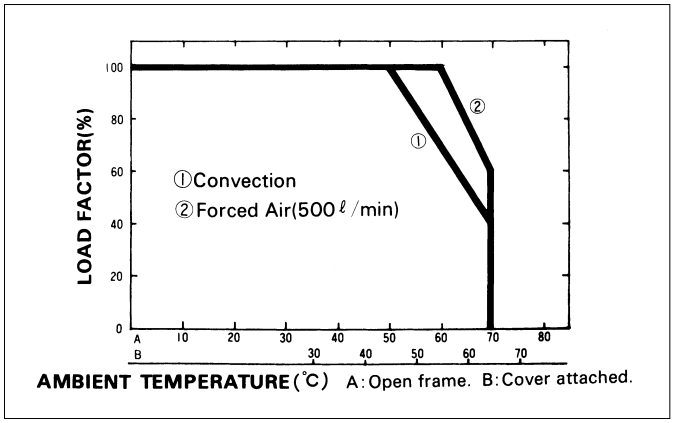
■RISE TIME & FALL TIME (K15A-5)



■OVERCURRENT CHARACTERISTICS (K15A-5)



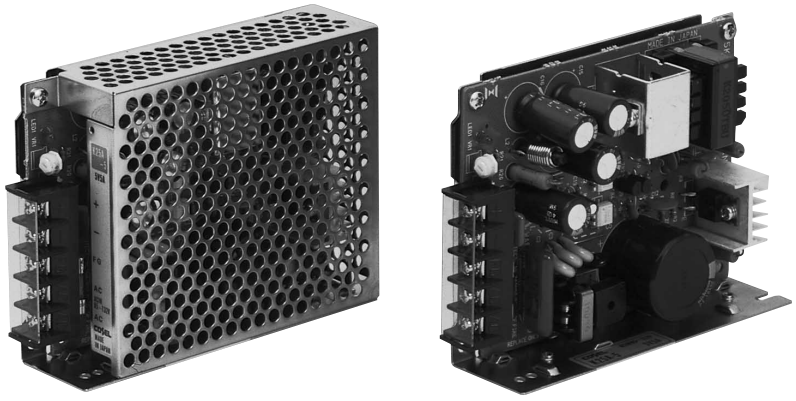
■DERATING CURVE



K25A

COSEL®

K



- Small size
- UL recognized, CSA certified
- Built-in inrush current and overcurrent protection circuits
- Two-year warranty

■ ORDERING INFORMATION

K25A □-5-□

- Optional:Ex. Connector type:J
- Output voltage
- UL recognized, CSA certified:U
- Output wattage
- Series name

SPECIFICATIOS

	MODEL	K25A-5	K25A-12	K25A-15	K25A-24
INPUT	VOLTAGE/ CURRENT	AC85~132V 1φ or DC110~170V / 0.57A typ (ACIN 100V, Io=100%)			
	FREQUENCY	47~440Hz or DC			
	INRUSH CURRENT	30A typ (ACIN 100V, Io=100%) At cold start			
	EFFICIENCY	67% typ	71% typ	73% typ	78% typ
OUTPUT	VOLTAGE [V]	5	12	15	24
	CURRENT [A]	5.0	2.1	1.7	1.1
	WATTAGE [W]	25.0	25.2	25.5	26.4
	LINE REGULATION [mV]	20max	48max	60max	96max
	LOAD REGULATION [mV]	40max	100max	120max	150max
	RIPPLE [mVp-p]	80max	120max	120max	120max
	RIPPLE NOISE [mVp-p]	120max	150max	150max	150max
	TEMPERATURE COEFFICIENT 0 ~ +50°C [mV]	50max	120max	150max	240max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	±10%			
	START-UP TIME [mS]	200max (ACIN 85V, Io=100%)			
	HOLD-UP TIME [mS]	16typ (ACIN 85V, Io=100%)			
PROTECTION CIRCUITS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
	OVERVOLTAGE PROTECTION	Works at 115~140% of rating			
ISOLATION	INPUT-FG,OUTPUT	AC1500V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
	OUTPUT-FG	AC 500V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
ENVIRONMENT	OPERATING TEMP. AND HUMID.	0~+70℃, 30~90%RH (Non condensing) (Refer to DERATING CURVE)			
	STORAGE TEMP. AND HUMID.	−20~+75℃, 20~90%RH (Non condensing)			
	VIBRATION	10~55Hz 1G, 3 minutes period, 30 minutes along X, Y and Z axis			
	IMPACT	10G, 20mS, once each X, Y and Z axis			
SAFETY AND NOISE REGULATIONS	SAFETY REGULATIONS	Recognized UL1950 (D3), certified CSA Electrical Bulletin No.1402C			
	CONDUCTED NOISE	Complies with FCC-A			

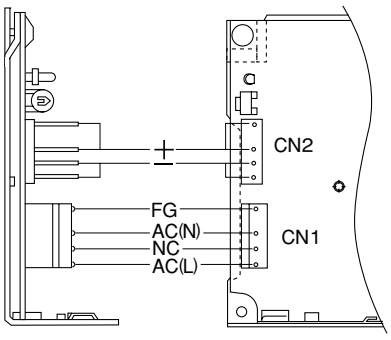
※ Avoid prolonged use under over-load.
※ Derating is required when operated with case cover.
※ Parallel operation with other model is not possible.

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MODEL	K25A-5	K25A-12	K25A-15	K25A-24
OUTPUT VOLTAGE [V]	5	12	15	24
OUTPUT CURRENT [A]	5.0	2.1	1.7	1.1

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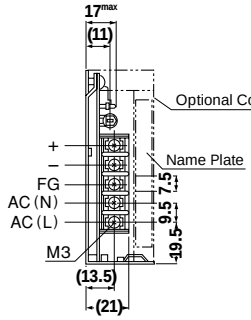
■EXTERNAL VIEW

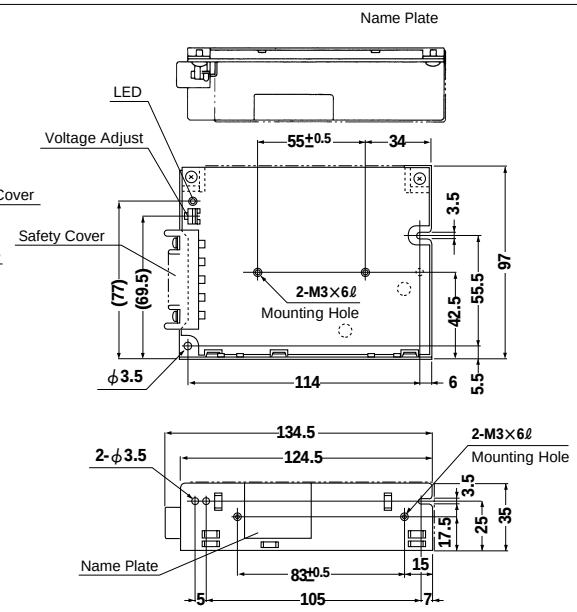


Mfr : Molex

I/O Connector		Mating Connector (Terminal)
CN1	5289-4A	5199-04 (5194)
CN2	5287-4A	5199-04 (5194)

Connector type

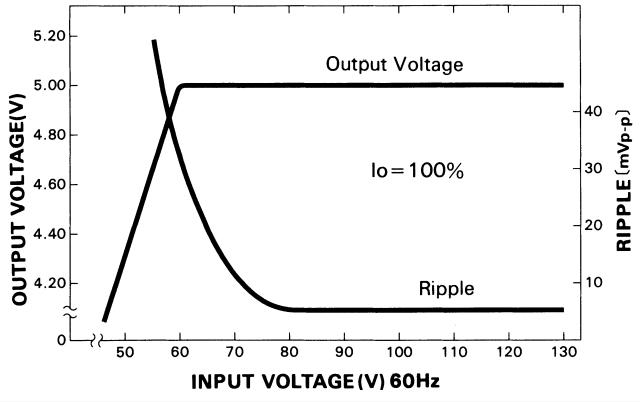




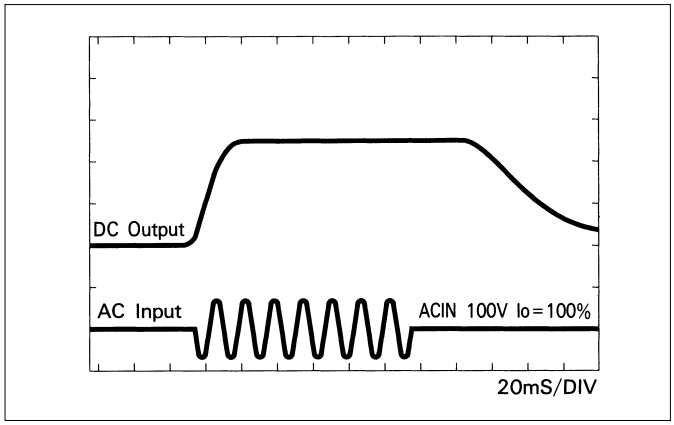
※Weight : 400g or less (without cover)
※Cover is optional
※Tolerance : ±1 ※Dimensions in mm.

Barrier strip type

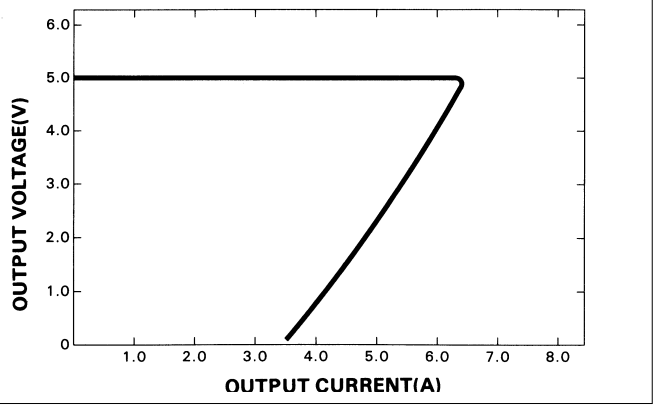
■STATIC CHARACTERISTICS (K25A-5)



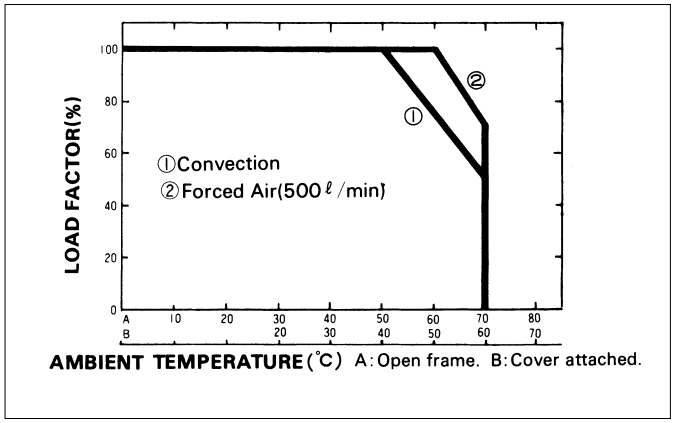
■RISE TIME & FALL TIME (K25A-5)



■OVERCURRENT CHARACTERISTICS (K25A-5)



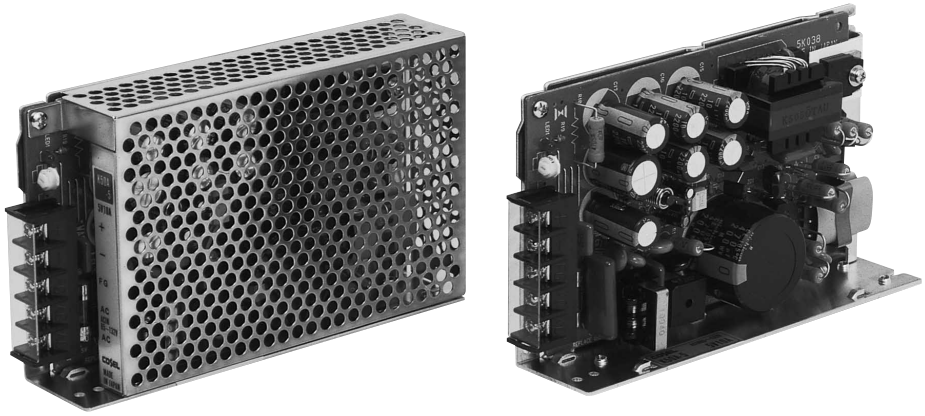
■DERATING CURVE



K50A

COSEL®

K



- Small size
- UL recognized, CSA certified
- Built-in inrush current, overvoltage and overcurrent protection circuits
- Two-year warranty

■ ORDERING INFORMATION

K50A □-5-□

- Optional:Ex. Connector type:J
- Output voltage
- UL recognized, CSA certified :U
- Output wattage
- Series name

SPECIFICATIONS

	MODEL	K50A-5	K50A-12	K50A-15	K50A-24
INPUT	VOLTAGE/ CURRENT	AC85~132V 1φ or DC110~170V / 1.1A typ (ACIN 100V, Io=100%)			
	FREQUENCY	47~440Hz or DC			
	INRUSH CURRENT	30A typ (ACIN 100V, Io=100%) At cold start			
	EFFICIENCY	68% typ	74% typ	76% typ	78% typ
OUTPUT	VOLTAGE [V]	5	12	15	24
	CURRENT [A]	10.0	4.2	3.4	2.1
	WATTAGE [W]	50.0	50.4	51.0	50.4
	LINE REGULATION [mV]	20max	48max	60max	96max
	LOAD REGULATION [mV]	40max	100max	120max	150max
	RIPPLE [mVp-p]	80max	120max	120max	120max
	RIPPLE NOISE [mVp-p]	120max	150max	150max	150max
	TEMPERATURE COEFFICIENT 0 ~ +50°C [mV]	50max	120max	150max	240max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	±10%			
	START-UP TIME [mS]	200max (ACIN 85V, Io=100%)			
	HOLD-UP TIME [mS]	16typ (ACIN 85V, Io=100%)			
PROTECTION CIRCUITS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
	OVERVOLTAGE PROTECTION	Works at 115~140% of rating			
ISOLATION	INPUT-FG,OUTPUT	AC1500V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
	OUTPUT-FG	AC 500V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
ENVIRONMENT	OPERATING TEMP. AND HUMID.	0~+70℃, 30~90%RH (Non condensing) (Refer to DERATING CURVE)			
	STORAGE TEMP. AND HUMID.	−20~+75℃, 20~90%RH (Non condensing)			
	VIBRATION	10~55Hz 1G, 3 minutes period, 30 minutes along X, Y and Z axis			
	IMPACT	10G, 20mS, once each X, Y and Z axis			
SAFETY AND NOISE REGULATIONS	SAFETY REGULATIONS	Recognized UL1950 (D3), certified CSA Electrical Bulletin No.1402C			
	CONDUCTED NOISE	Complies with FCC-A			

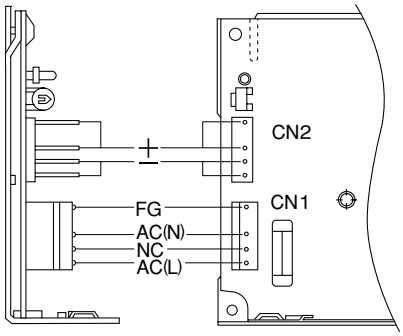
※ Avoid prolonged use under over-load.
※ Derating is required when operated with case cover.
※ Parallel operation with other model is not possible.

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MODEL		K50A-5	K50A-12	K50A-15	K50A-24
OUTPUT VOLTAGE	[V]	5	12	15	24
OUTPUT CURRENT	[A]	10.0	4.2	3.4	2.1

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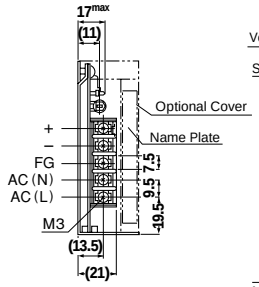
■EXTERNAL VIEW

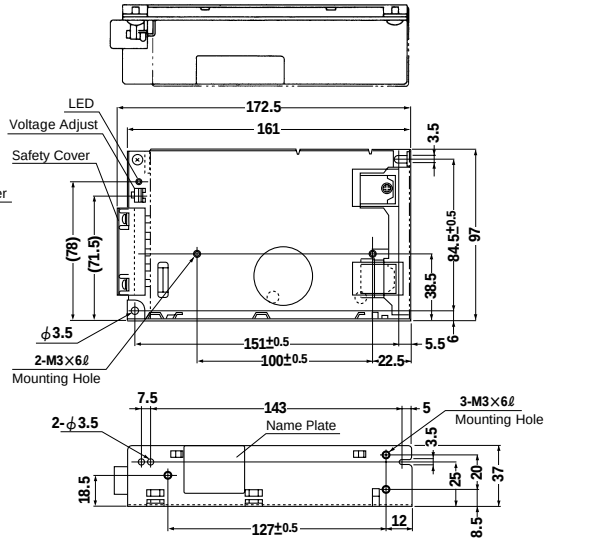


Mfr : Molex

I/O Connector		Mating Connector (Terminal)
CN1	5289-4A	5199-04 (5194)
CN2	5287-4A	5199-04 (5194)

Connector type

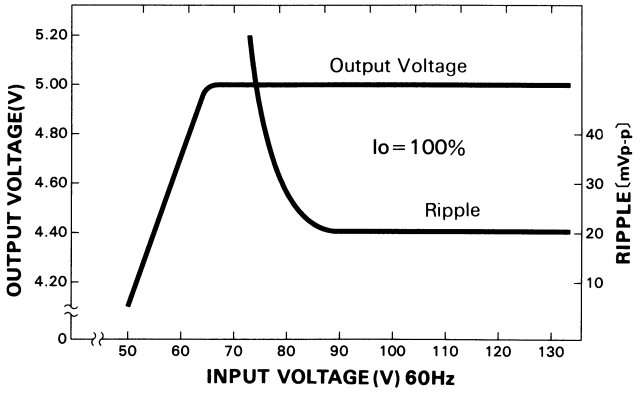




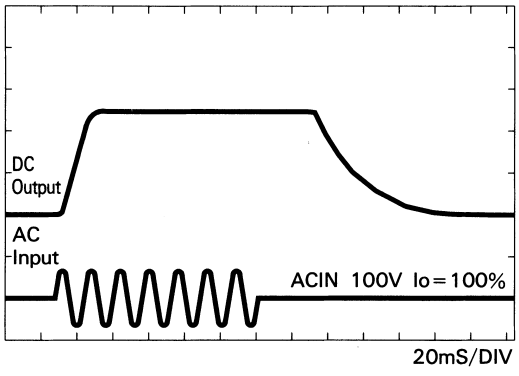
Barrier strip type

※Weight : 450g or less(without cover)
※Cover is optional
※Tolerance : ±1
※Dimensions in mm.

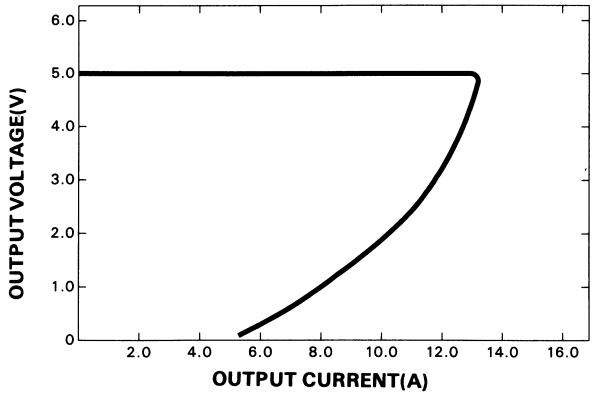
■STATIC CHARACTERISTICS (K50A-5)



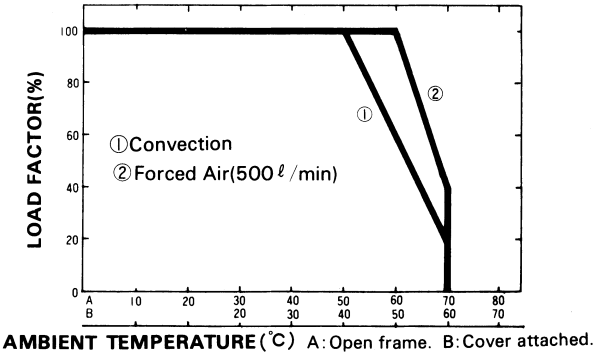
■RISE TIME & FALL TIME (K50A-5)



■OVERCURRENT CHARACTERISTICS (K50A-5)

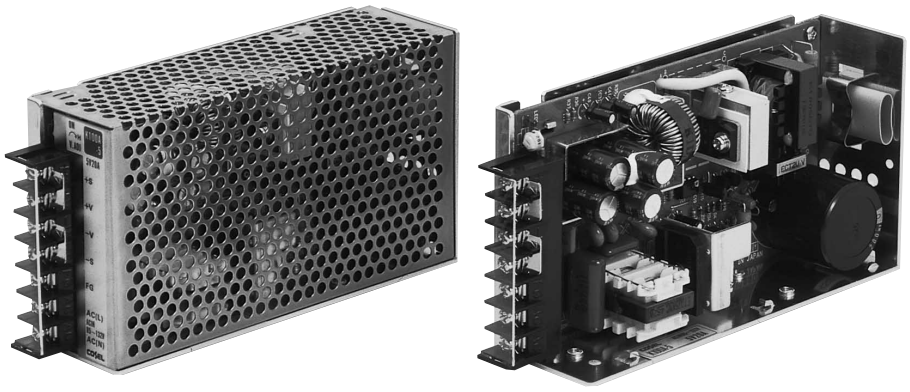


■DERATING CURVE



K100A

COSEL®



- Small size
- UL recognized, CSA certified
- Built-in inrush current, overcurrent and overvoltage protection circuits
- Two-year warranty

■ ORDERING INFORMATION

K100A□-5-□

- Optional:Ex. Connector type:J
- Output voltage
- UL recognized, CSA certified :U
- Output wattage
- Series name

SPECIFICATIONS

	MODEL	K100A-5	K100A-12	K100A-15	K100A-24
INPUT	VOLTAGE	AC85~132V 1φ or DC110~170V / 2.4A typ (ACIN 100V, Io=100%)			
	FREQUENCY	47~440Hz or DC			
	INRUSH CURRENT	25A typ (ACIN 100V, Io=100%)			
	EFFICIENCY	79% typ	83% typ	84% typ	85% typ
OUTPUT	VOLTAGE [V]	5	12	15	24
	CURRENT [A]	20.0	8.5	7.0	4.5
	WATTAGE [W]	100.0	102.0	105.0	108.0
	LINE REGULATION [mV]	20max	48max	60max	96max
	LOAD REGULATION [mV]	40max	100max	120max	150max
	RIPPLE [mVp-p]	80max	120max	120max	120max
	RIPPLE NOISE [mVp-p]	120max	150max	150max	150max
	TEMPERATURE COEFFICIENT 0 ~ +50°C [mV]	50max	120max	150max	240max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	±10%			
	START-UP TIME [mS]	200max (ACIN 85V, Io=100%)			
	HOLD-UP TIME [mS]	16typ (ACIN 85V, Io=100%)			
PROTECTION CIRCUITS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
	OVERVOLTAGE PROTECTION	Works at 115~140% of rating			
ISOLATION	INPUT-FG,OUTPUT	AC2000V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
	OUTPUT-FG	AC 500V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
ENVIRONMENT	OPERATING TEMP. AND HUMID.	0~+70℃, 30~90%RH (Non condensing) (Reter to DERATING CURVE)			
	STORAGE TEMP. AND HUMID.	−20~+75℃, 20~90%RH (Non condensing)			
	VIBRATION	10~55Hz 2G, 3 minutes period, 30 minutes along X, Y and Z axis			
	IMPACT	10G, 20mS, once each X, Y and Z axis			
SAFETY AND NOISE REGULATIONS	SAFETY REGULATIONS	Recognized UL1950 (D3), certified CSA Electrical Bulletin No.1402C			
	CONDUCTED NOISE	Complies with FCC-A			

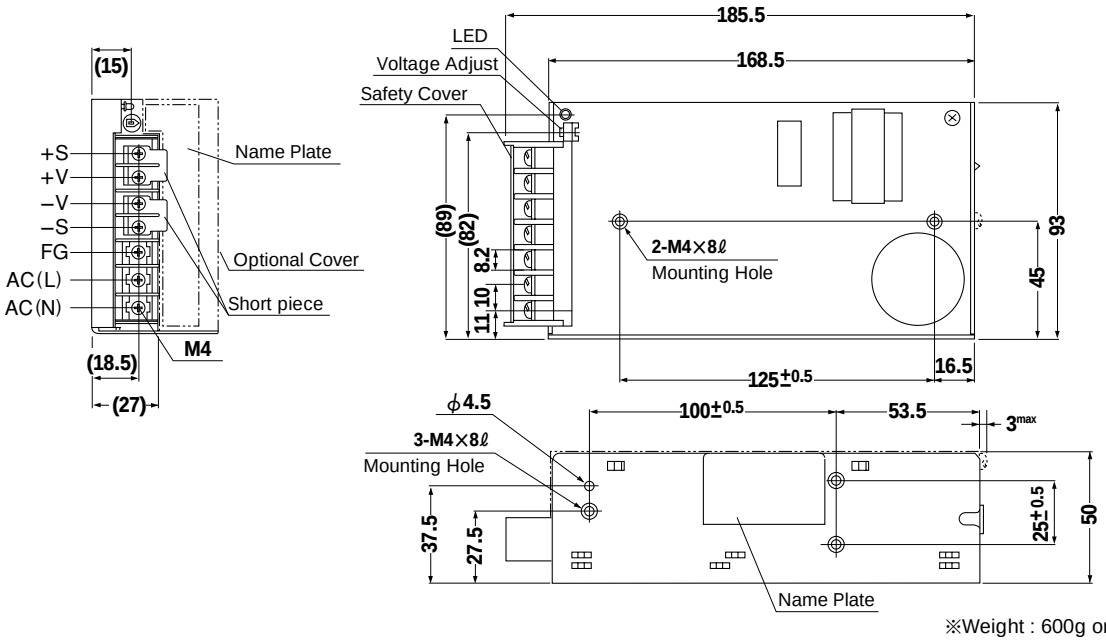
※ Avoid prolonged use under over-load.
※ Derating is required when operated with case cover.
※ Parallel operation with other model is not possible.

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MODEL	K100A-5	K100A-12	K100A-15	K100A-24
OUTPUT VOLTAGE [V]	5	12	15	24
OUTPUT CURRENT [A]	20.0	8.5	7.0	4.5

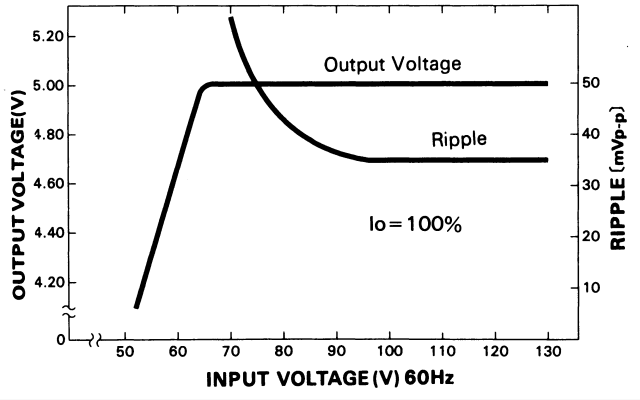
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■EXTERNAL VIEW

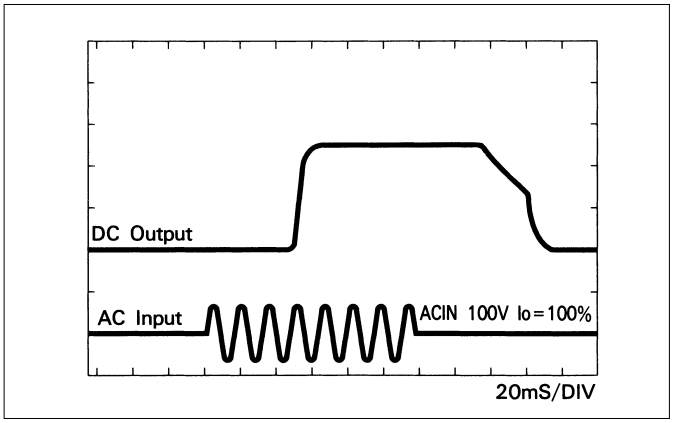


※Weight : 600g or less (without cover)
※Cover is optional
※Tolerance : ±1 ※Dimensions in mm.

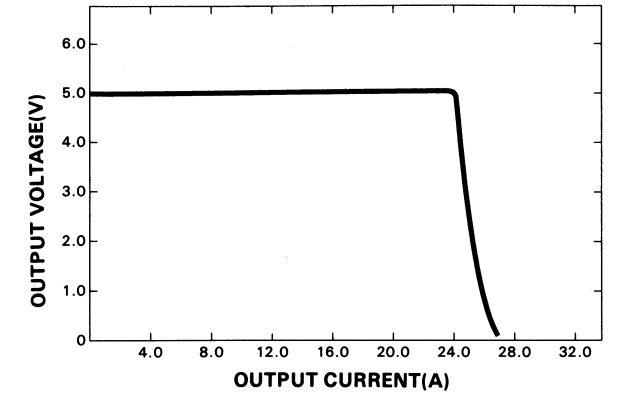
■STATIC CHARACTERISTICS (K100A-5)



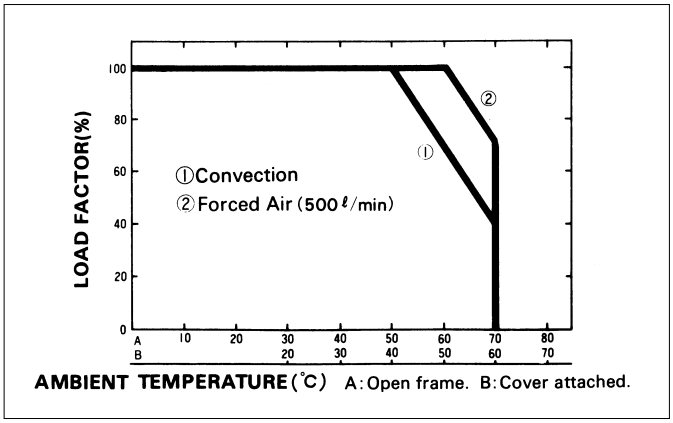
■RISE TIME & FALL TIME (K100A-5)



■OVERCURRENT CHARACTERISTICS (K100A-5)



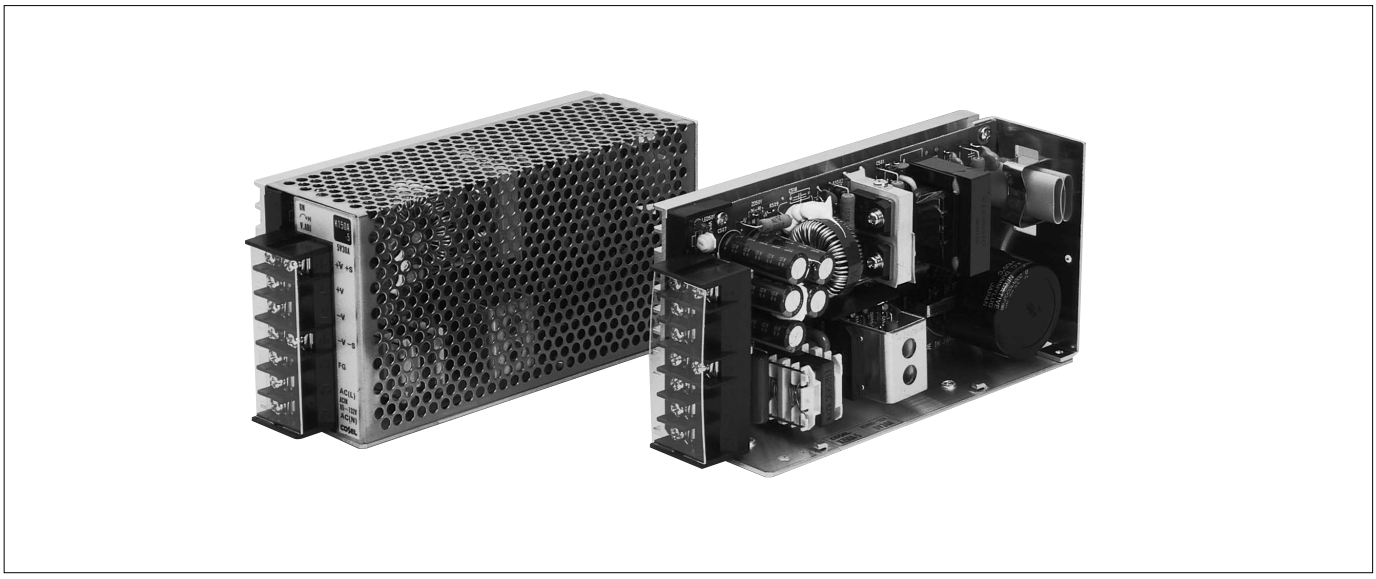
■DERATING CURVE



K150A

COSEL®

K



- Small size
- UL recognized, CSA certified
- Built-in inrush current, overcurrent and overvo ltage protction circuits
- Two-year warranty

■ ORDERING INFORMATION

K150A□-5-□

- Optional:Ex. Connector type:J
- Output voltage
- UL recognized, CSA certified :U
- Output wattage
- Series name

SPECIFICATIONS

	MODEL	K150A-5	K150A-12	K150A-15	K150A-24
INPUT	VOLTAGE/ CURRENT	AC85~132V 1φ or DC110~170V / 3.0A typ (ACIN 100V, Io=100%)			
	FREQUENCY	47~440Hz or DC			
	INRUSH CURRENT	25A typ (ACIN 100V, Io=100%)			
	EFFICIENCY	77% typ	80% typ	82% typ	84% typ
OUTPUT	VOLTAGE [V]	5	12	15	24
	CURRENT [A]	30.0	13.0	10.0	6.5
	WATTAGE [W]	150.0	156.0	150.0	156.0
	LINE REGULATION [mV]	20max	48max	60max	96max
	LOAD REGULATION [mV]	40max	100max	120max	150max
	RIPPLE [mVp-p]	80max	120max	120max	120max
	RIPPLE NOISE [mVp-p]	120max	150max	150max	150max
	TEMPERATURE COEFFICIENT 0 ~ +50°C [mV]	50max	120max	150max	240max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	±10%			
	START-UP TIME [mS]	200max (ACIN 85V, Io=100%)			
	HOLD-UP TIME [mS]	16typ (ACIN 85V, Io=100%)			
PROTECTION CIRCUITS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
	OVERVOLTAGE PROTECTION	Works at 115~140% of rating			
ISOLATION	INPUT-FG,OUTPUT	AC2000V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
	OUTPUT-FG	AC 500V, 1minute, DC500V, 50MΩmin. (At Room Temperature)			
ENVIRONMENT	OPERATING TEMP. AND HUMID.	0~+70℃, 30~90%RH (Non condensing) (Refer to DERATING CURVE)			
	STORAGE TEMP. AND HUMID.	−20~+75℃, 20~90%RH (Non condensing)			
	VIBRATION	10~55Hz 2G, 3 minutes period, 30 minutes along X, Y and Z axis			
	IMPACT	10G, 20mS, once each X, Y and Z axis			
SAFETY AND NOISE REGULATIONS	SAFETY REGULATIONS	Recognized UL1950 (D3), certified CSA Electrical Bulletin No.1402C			
	CONDUCTED NOISE	Complies with FCC-A			

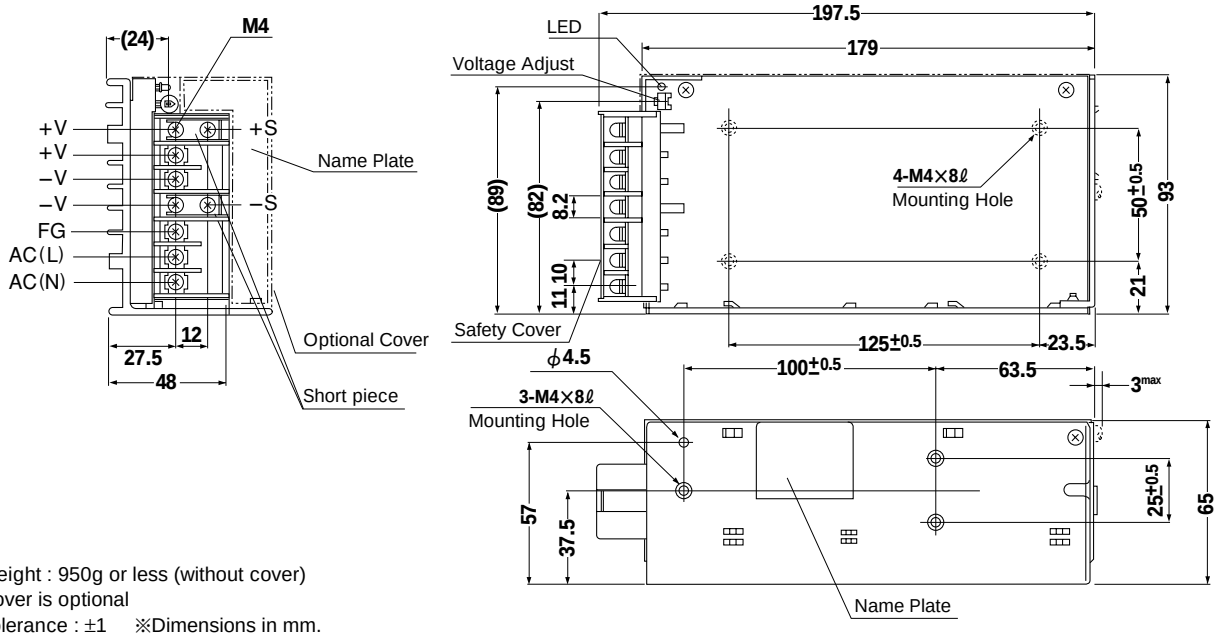
※ Avoid prolonged use under over-load.
※ Derating is required when operated with case cover.
※ Parallel operation with other model is not possible.

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MODEL	K150A-5	K150A-12	K150A-15	K150A-24
OUTPUT VOLTAGE [V]	5	12	15	24
OUTPUT CURRENT [A]	30.0	13.0	10.0	6.5

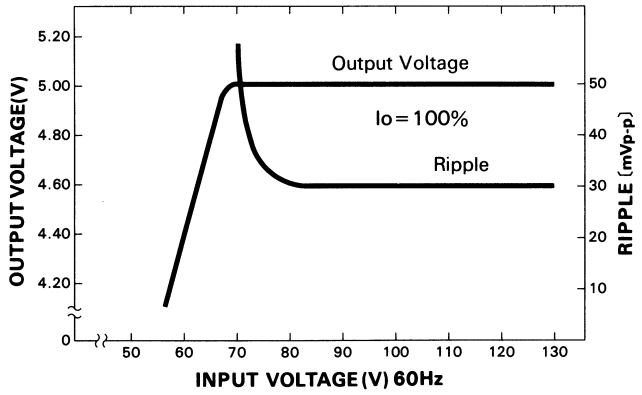
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■EXTERNAL VIEW

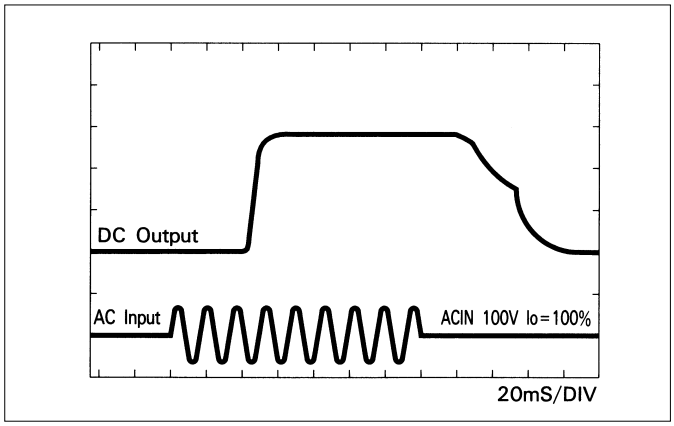


※Weight : 950g or less (without cover)
※Cover is optional
※Tolerance : ±1 ※Dimensions in mm.

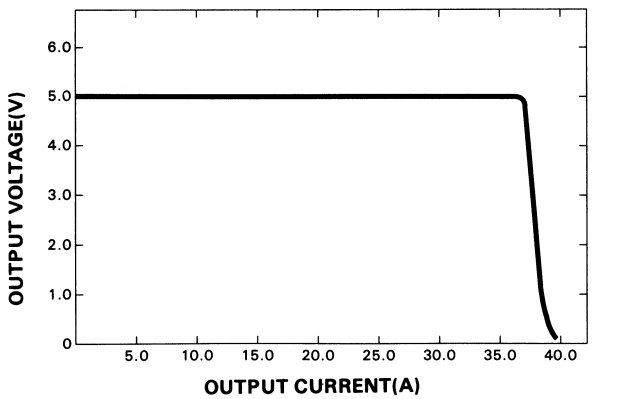
■STATIC CHARACTERISTICS (K150A-5)



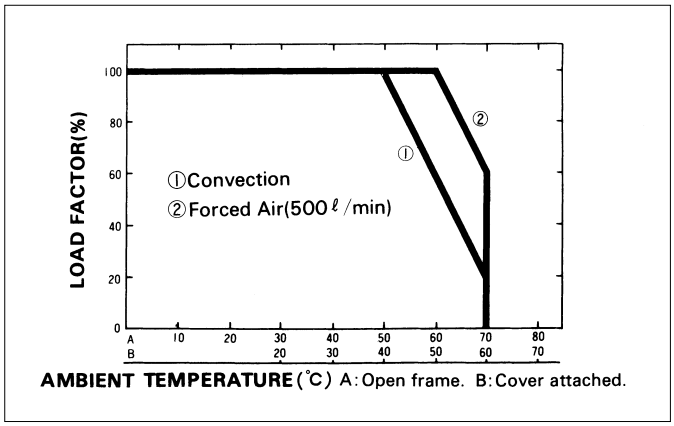
■RISE TIME & FALL TIME (K150A-5)



■OVERCURRENT CHARACTERISTICS (K150A-5)



■DERATING CURVE



Instruction Manual

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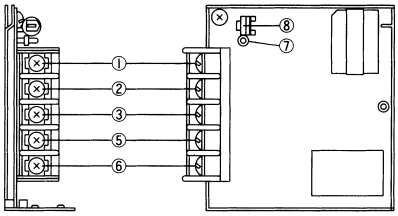
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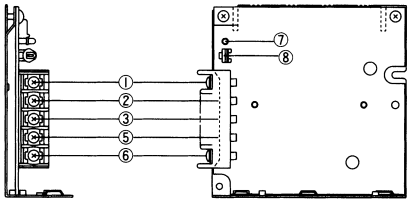
1. Terminal Block

●K10A



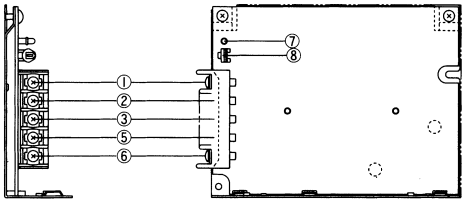
①+Output
②−Output
③Frame ground
⑤AC (N)
⑥AC (L)
⑦LED
⑧Output voltage adjustable potentiometer

●K15A



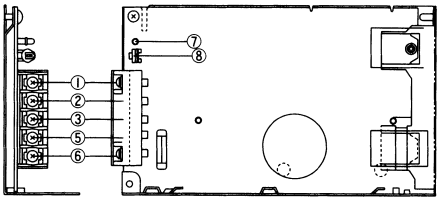
①+Output
②−Output
③Frame ground
⑤AC (N)
⑥AC (L)
⑦LED
⑧Output voltage adjustable potentiometer

●K25A



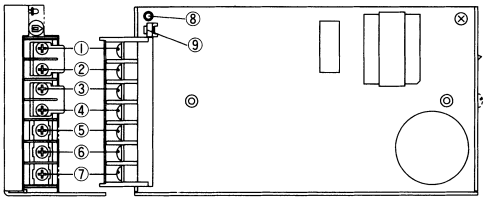
①+Output
②−Output
③Frame ground
⑤AC (N)
⑥AC (L)
⑦LED
⑧Output voltage adjustable potentiometer

●K50A



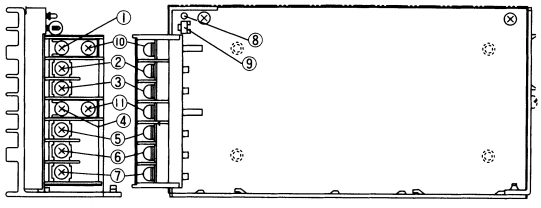
①+Output
②−Output
③Frame ground
⑤AC (N)
⑥AC (L)
⑦LED
⑧Output voltage adjustable potentiometer

●K100A



①+Remote sensing (+S)
②+Output
③−Output
④−Remote sensing (−S)
⑤Frame ground
⑥AC (L)
⑦AC (N)
⑧LED
⑨Output voltage adjustable potentiometer

●K150A



①, ② } +Output
③, ④ } −Output
⑤Frame ground
⑥AC (L)
⑦AC (N)
⑧LED
⑨Output voltage adjustable potentiometer
⑩+Remote sensing (+S)
⑪−Remote sensing (−S)

2. Function

2.1 Input voltage range

■The range is from AC85V to AC132V or DC110V (K10A: 90V) to DC170V.

■If the input voltage other than the above input voltage range is applied, some functions will not work satisfactorily, and/or power supply will be damaged. The input voltage should be within the above range.

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2.2 Inrush current limiting

■Inrush current limiting is built-in.

■When a switch is used for input, select a switch which can be tolerant of input inrush current.

●K15A • K25A • K50A

■The thermistor is used for protection from inrush current. When power is turned ON/OFF repeatedly within a short period of time, it is necessary to have enough time for power supply to cool down.

●K100A • K150A

■The thyristor technique is used for protection from inrush current. When power is turned ON/OFF repeatedly within a short period of time, it is necessary to have enough time between power ON and OFF to operate resistance circuit for inrush current.

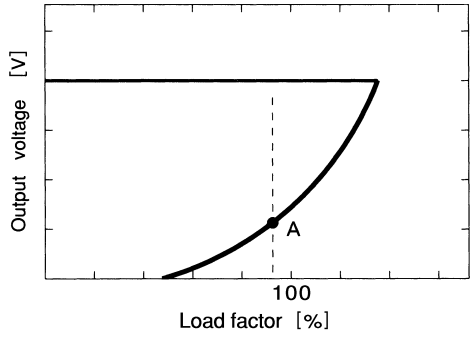
Table 2.1 Inrush current Unit: [A typ.]

No.	Model	Inrush current	No.	Model	Inrush current
1	K10A	25	4	K50A	30
2	K15A	30	5	K100A	25
3	K25A	30	6	K150A	25

2.3 Overcurrent protection

■Overcurrent protection circuit is built-in to be operated over 105% of the rated current. This function works to protect against short circuit and overcurrent condition of less than 20 seconds. When cause of activation of overcurrent protection is removed, the output will be automatically recovered.

■The power supply which has a current foldback characteristics may not start up when connected to nonlinear load such as lamp, motor or constant current load. See the characteristics below (K10A~K50A).



——: Load characteristics of power supply
– – – – –: Characteristics of load (lamp, motor, constant current load, etc.)
Note: In case of nonlinear load, the output is locked out at A point.

Fig. 2.1 Current foldback characteristics

2.4 Overvoltage protection

■Overvoltage protection circuit is built-in to be operated at 115~140% of the rated voltage. When this function operates, input should be shut off, and then wait for 2~3 minutes (*). Output voltage will be recovered after applying input voltage.
* The recovery time depends on input voltage.

Remarks:
Please note that devices inside the power supply might fail when voltage more than rated output voltage is applied to output terminal of power supply unit. This could happen when the customer tests the overvoltage performance of the unit.

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2.5 Output voltage adjustment range

■Adjustment of output voltage is possible by using potentiometer.

■Output voltage is increased by turning potentiometer clockwise and is decreased by turning potentiometer counterclockwise.
■When potentiometer is over-turned clockwise, overvoltage protection function activates. To set up output voltage, first turn potentiometer counterclockwise to the end, then turn back clockwise gradually until reaching the level of required voltage.

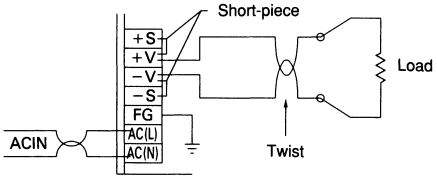
K

2.6 Remote sensing

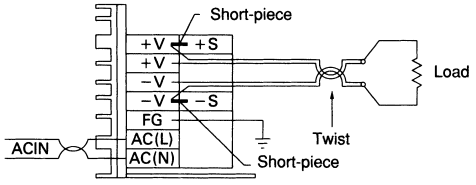
●K100A • K150A

(1) When not using remote sensing function

●K100A

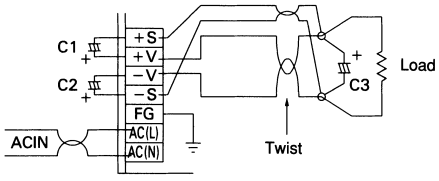


●K150A

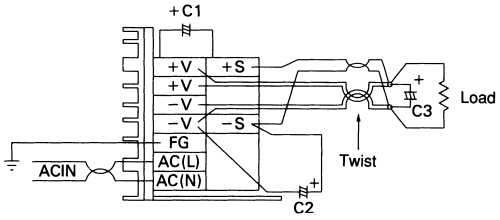


(2) When using remote sensing function

●K100A



●K150A



■When not using this function, confirm that terminals are shorted between +S and +V, and between −S and −V with short pieces.

■When using this function, wiring should be done without short pieces.

■Devices inside of power supply might be damaged when poor connection on load lines occurs, e.g. because of loose connector screws.

■Thick wire should be used for wiring between power supply and load, and line voltage drop should be less than 0.3V.

■When long sensing wire is required, use C1, C2 and C3.

■Twisted-pair wire or and shield wire should be used for sensing wire.

2.7 Isolation

■When conducting tests such as the Hi-pot test at an incoming test, gradually increase the voltage. Also gradually reduce the voltage for shut down. Avoid using the Hi-pot tester with a timer because it may generate the voltage a few timens higher than the applied voltage when the timer starts and ends.

3. Series Operation and Parallel Operation

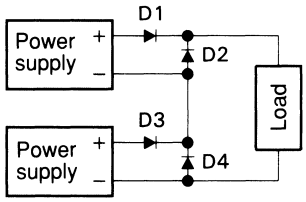
3.1 Series operation

●K10A • K15A • K25A • K50A

■Series operation is available by connecting below. However, output current in series connection should be lower than the lowest rated current in each unit.

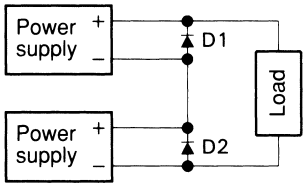
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When the output voltage is less than 5V.



D1~D4: Please use Schottky Barrier Diode.

When the output voltage is more than 12V.

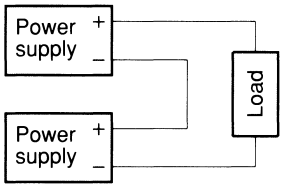


D1 • D2: Please use Schottky Barrier Diode.

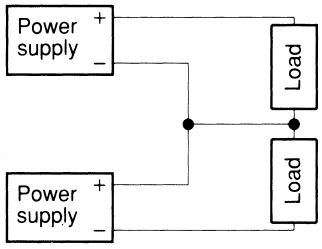
●K100A • K150A

■Series operation is available by connecting below. However, output current in series connection should be lower than the lowest rated current in each unit.

(a)



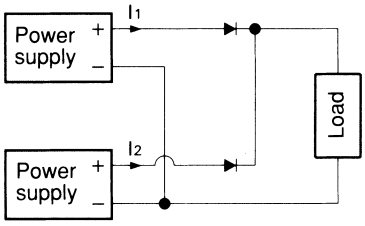
(b)



3.2 Parallel redundancy operation

●K10A • K15A • K25A • K50A • K100A • K150A

■Parallel redundancy operation is available by connecting below.



■Values of I_1 and I_2 might be slightly different because of fine differences of output voltage. Make fine adjustment of output voltage and keep balance of output current, as output current from each power supply should not exceed the rated current value.

I_1, I_2 ≦ the rated current value

4. Assembling and Installation Method

4.1 Installation method

■When two or more power supplies are used side by side, position them with proper intervals to allow enough air ventilation. Ambient temperature around each power supply should not exceed the temperature range shown in derating curve.

4.2 Derating

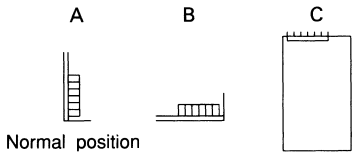
■The operative ambient temperature is different by with/without case cover or mounting position. Please refer drawings as belown.

■When unit mounted except below drawings, it is required to consider ventilated environment by forced air cooling for temperature/load derating. For details, please consult our sales or engineering departments.

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(1) Mounting method

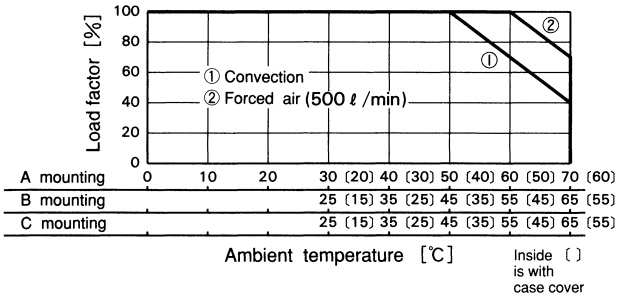
■When mounted except below, forced air or temperature • load derating is required so that heat from the power supply is not confined. For more details, please consult our sales or engineering departments.



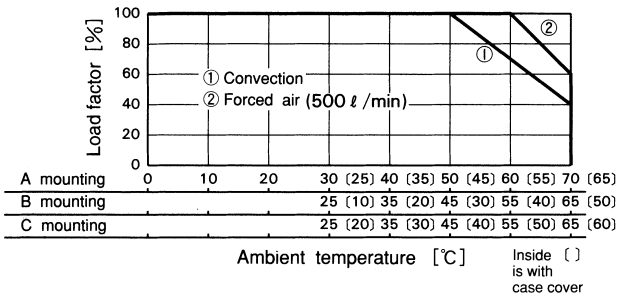
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(2) Derating curve

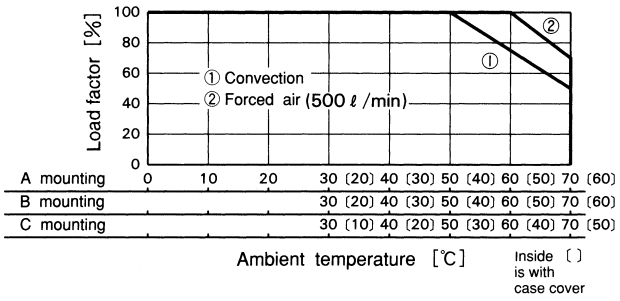
●K10A



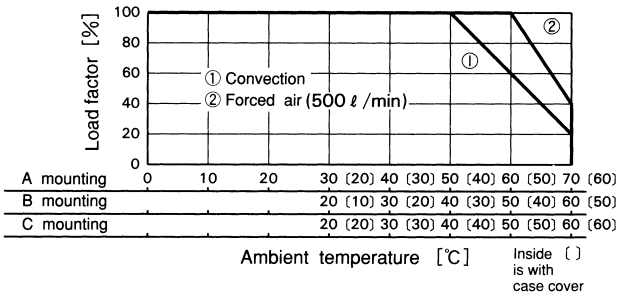
●K15A



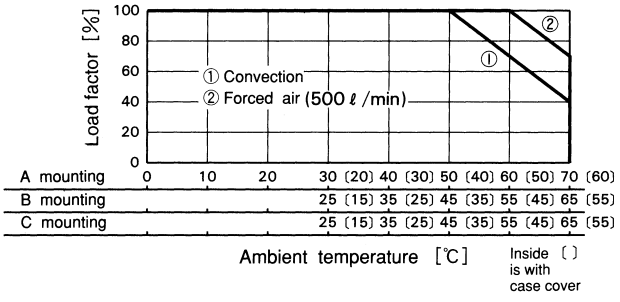
●K25A



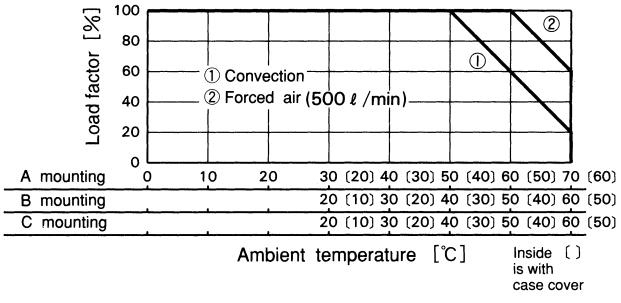
●K50A



●K100A

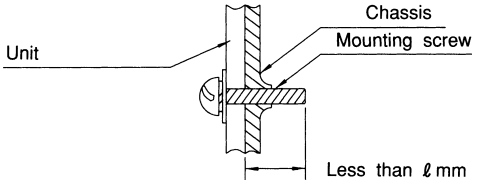


●K150A



4.3 Mounting screw

■Keep isolation distance between screw and internal components, as below chart.



Unit: [mm]

No.	Model	ℓ	No.	Model	ℓ
1	K10A	6	4	K50A	6
2	K15A	6	5	K100A	8
3	K25A	6	6	K150A	8

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