

TDK Power Supply Service System



Periodic Overhauls are
Necessary - Even for Long-Life Power Supplies.

From part selection and procurement on through all manufacturing processes, our goal at TDK is to produce long-life, trouble-free power supplies. Even with a goal of designing difficult to break power supplies, the life span of fans and electrical components is not unlimited. In particular, the capacity of electrolytic capacitor deteriorates even when they are not being used. We recommend overhauls of awitching power supplies based on consideration of the conditions and environment they are being used in.



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Use the Purchase Route for After Service

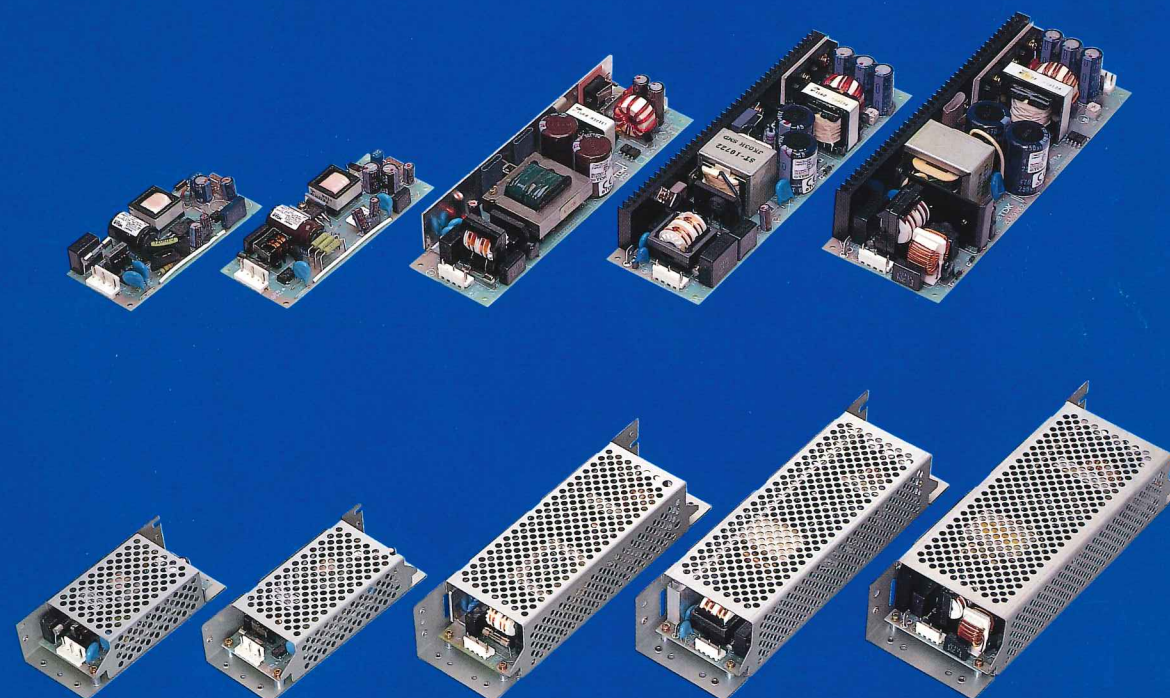
In the event that a defect occurs in one of our products, customers are to use the purchase route to communicate this. A sysytem is in place for swift response to after service needs. Comprehensive technical consultation concerning switching power supplies is available, use the same route for all inquiries.

TDK SWITCHING POWER SUPPLIES

New

General Use AC Input/Single Output

JAW, JAW-C Series



TDK CORPORATION
Power Electronic Products Mfg. Div.

C5V01B-E

TDK SWITCHING POWER SUPPLIES

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General AC Input/Single Output

JAW Series

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J-Series JAW/JAW-C

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements

3Year Warranty

FEATURES

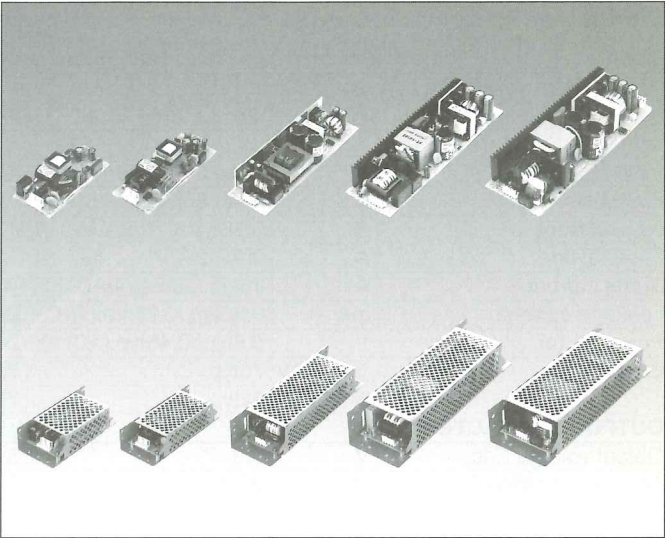
- Low Cost & Compact
- Universal Input/Single Output Power Supply
(10 to15W: AC 85 to 265V Continuous Input,
50 to 150W:AC 85 to 132V / 170 to 265V
Automatic Switching)
- Safety Agency Certified
- Power Factor Correction(for models 50W and
above)
- CE Mark(Certified to Low Voltage Directive
EN60950)
- Wide Output Power Selection: 10W to 150W
- Open Frame/with cover
- Meets EMC Requirements

APPLICATIONS:

Measuring equipment,robotics/automation equipment,
information processing equipment,security
systems,amusement equipment,etc.

SAFETY APPROVALS:

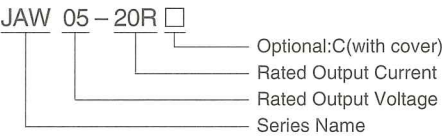
Certified to UL1950 and CSA C22.2 No.950-95
Conforms to EN60950(CB)and DENTORI



EMC

- EMI:Designed to meet FCC Class B, VCCI-B Class,
EN-55011-B, EN55022-B requirements.
- Harmonic Current Regulation: Designed to meet
EN61000-3-2(models 50W and above).

PRODUCT IDENTIFICATION



MODEL•RATING SUMMARY

JAW Series : No cover (open-frame)

Output Voltage (V)	10W Type		15W Type		50W Type		100W Type		150W Type	
	Output Current (A)	Model	Output Current (A)	Model	Output Current (A)	Model	Output Current (A)	Model	Output Current (A)	Model
3.3	2	JAW03-2R0	3	JAW03-3R0	10	JAW03-10R	20	JAW03-20R	30	JAW03-30R
5	2	JAW05-2R0	3	JAW05-3R0	10	JAW05-10R	20	JAW05-20R	30	JAW05-30R
12	0.9	JAW12-0R9	1.3	JAW12-1R3	4.3	JAW12-4R3	8.5	JAW12-8R5	12.5	JAW12-12R
24	0.5	JAW24-0R5	0.7	JAW24-0R7	2.1	JAW24-2R1	4.3	JAW24-4R3	6.3	JAW24-6R3
48							2.1	JAW48-2R1	3.2	JAW48-3R2

JAW-C Series : With cover

Output Voltage (V)	10W Type		15W Type		50W Type		100W Type		150W Type	
	Output Current (A)	Model	Output Current (A)	Model	Output Current (A)	Model	Output Current (A)	Model	Output Current (A)	Model
3.3	2	JAW03-2R0C	3	JAW03-3R0C	10	JAW03-10RC	16	JAW03-20RC	24	JAW03-30RC
5	2	JAW05-2R0C	3	JAW05-3R0C	10	JAW05-10RC	16	JAW05-20RC	24	JAW05-30RC
12	0.9	JAW12-0R9C	1.3	JAW12-1R3C	4.3	JAW12-4R3C	6.8	JAW12-8R5C	10	JAW12-12RC
24	0.5	JAW24-0R5C	0.7	JAW24-0R7C	2.1	JAW24-2R1C	3.5	JAW24-4R3C	5.1	JAW24-6R3C
48							1.7	JAW48-2R1C	2.6	JAW48-3R2C

*15V Output and 30W,75W models are currently being developed. 3.3V models are only produced upon receipt of order.

J-Series JAW10W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements

SPECIFICATIONS

Model	JAW03-2R0	JAW05-2R0	JAW12-0R9	JAW24-0R5
Rated output voltage and current*1	3.3V•2A	5V•2A	12V•0.9A	24V•0.5A
Maximum output power	6.6	10	10.8	12

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 265[Rated : 100-240]			
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)			
Input current	A	0.26typ./0.3max.[AC.100V]0.14typ./0.18max.[AC.240V]			
Fuse rating	A	2[AC.250V]			
Surge current	A	15typ.(20max.)[AC.100V]30typ.(40max.)[AC.240V]First surge.			
Leakage current	mA	0.35typ./0.75max.[AC.100V, 60Hz]0.5typ./1.5max.[AC.240V, 60Hz]			
Power factor		0.6typ./0.45typ.[AC.100/240V]			
Effeciency	% 100V	70typ.	75typ.	75typ.	75typ.
	% 240V	62typ.	70typ.	72typ.	73typ.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24
Adjustment range Edc*3	V	2.7 to 3.6	Fixed	Fixed	Fixed
Maximum output current	A	2	2	0.9	0.5
Minimum output current	A	0	0	0	0
Overvoltage setting value Edc	V	3.7min.	5.6min.	13.3min.	26.5min.
Overcurrent setting value	A	2.1min.	2.1min.	0.91min.	0.51min.

Output voltage stability					
Source effect	%	0.4max.[Input Voltage range]			
Load effect	%	0.8max.[0 to 100%Load]			
Temperature effect	%	2max.[Ambient temperature-10 to +50°C]			
Time effect	%	0.4max.[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±4max./1max.[50 to 100%Transient time]			
Ripple Ep-p	mV	100max.	100max.	130max.	160max.
Ripple noise Ep-p	mV	120max.	120max.	150max.	200max.
Start up time	ms	650max.(500typ.) /240max.(180typ.) [AC.100/240V]		1040max.(800typ.) /420max.(320typ.) [AC.100/240V]	
Hold up time	ms	18min.(25typ.) /166min.(212typ.) [AC.100/240V]	12min.(17typ.)/110min.(140typ.)[AC.100/240V]		

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	Zenor Diode Clamp Metod, output may latch up depending on the condition
Over current protection	Winker operation, output may latch up depending on the condition
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

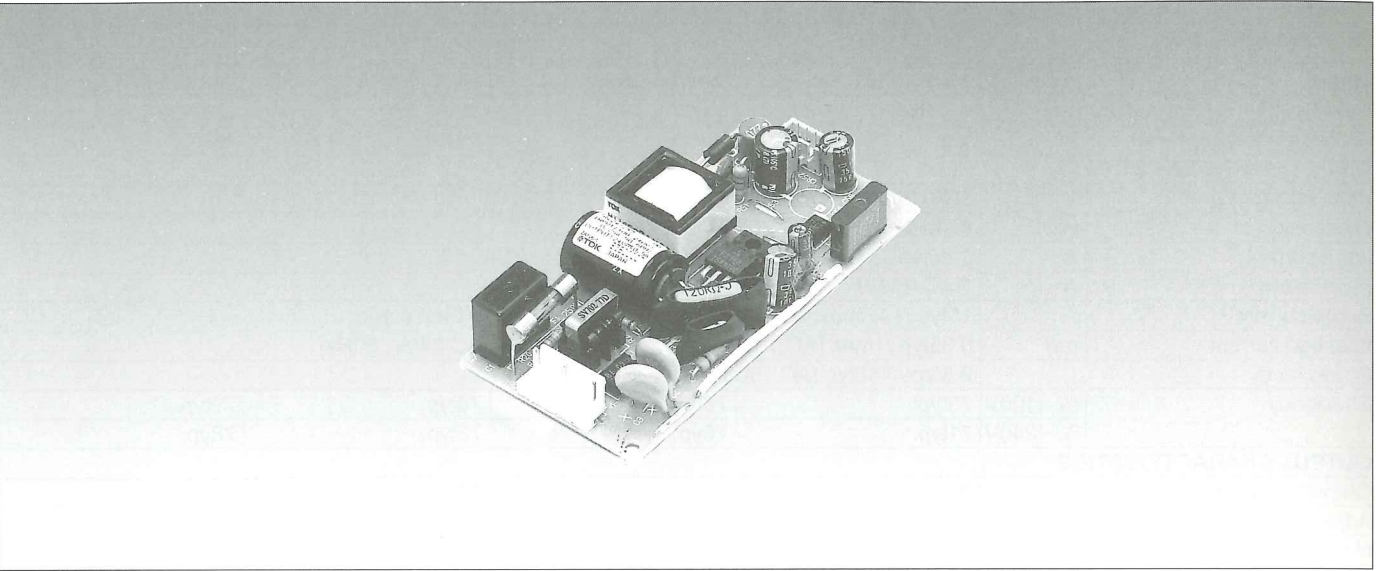
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	No

STRUCTURE

Dimensions	mm	21×50×105[H×W×L]
Weight	g	90max.
Mounting		Acceptable from 1 surface
Case material		No

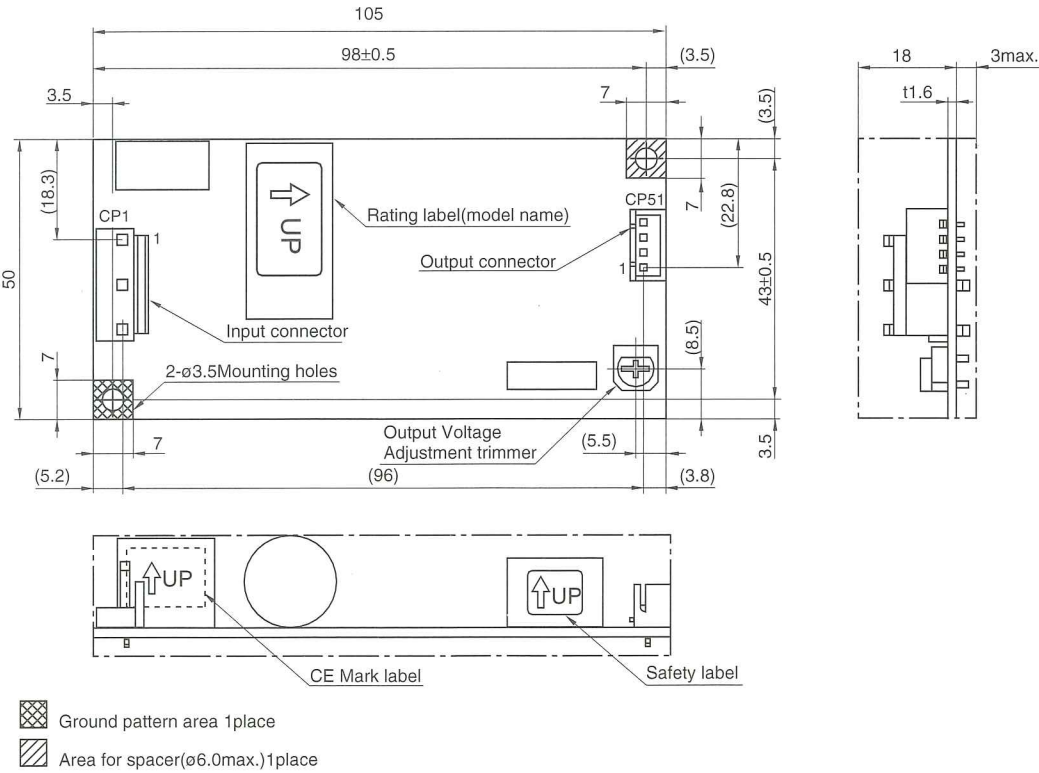
*1 Maximum rated output current is for -10°C to +50°C.Derating is required if the power supply is used outside of this temperature range.
*2 The power supply output may shut down if the unit is operated below the input voltage range or if the input voltage is caused to rise slowly(more than 1 sec.)on start-up.Output can be recovered by input reclosing after 1minute.
*3 An optional Variable Trimmer is available upon request.



OUTLINE DRAWING

JAW10W Type

Unit : mm
±1mm Tolerance unless other wise specified
Third angle projection



J-Series JAW15W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements

SPECIFICATIONS

Model		JAW03-3R0	JAW05-3R0	JAW12-1R3	JAW24-0R7
Rated output voltage and current*1		3.3V•3A	5V•3A	12V•1.3A	24V•0.7A
Maximum output power	W	9.9	15	15.6	16.8

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 265[Rated : 100-240]			
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)			
Input current	A	0.36typ./0.43max.[AC.100V]0.20typ./0.24max.[AC.240V]			
Fuse rating	A	2[AC.250V]			
Surge current*3	A	15typ./19.5max.[AC.100V]33typ./41max.[AC.240V]First surge.			
Leakage current	mA	0.35typ./1max.[AC.100V, 60Hz]0.5typ./0.75max.[AC.240V, 60Hz]			
Power factor		0.6typ./0.45typ.[AC.100/240V]			
Effeciency	% 100V	73typ.	76typ.	78typ.	79typ.
	% 240V	71typ.	76yp.	76typ.	78yp.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24
Adjustment range Edc*4	V	2.7 to 3.6	Fixed	Fixed	Fixed
Maximum output current	A	3	3	1.3	0.7
Minimum output current	A	0	0	0	0
Overvoltage setting value Edc	V	3.7min.	5.6min.	13.3min.	26.5min.
Overcurrent setting value	A	3.1min.	3.1min.	1.31min.	0.71min.

Output voltage stability

Source effect	%	0.4max.[Input Voltage range]			
Load effect	%	0.8max.[0 to 100%Load]			
Temperature effect	%	2max.[Ambient temprature-10 to +50°C]			
Time effect	%	0.4max.[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±4max./1max.[50 to 100%Transient time]			
Ripple Ep-p	mV	80max.	80max.	120max.	120max.
Ripple noise Ep-p	mV	120max.	120max.	150max.	150max.
Start up time	ms	900max.(700typ.)/330max.(260typ.)[AC.100/240V]			
Hold up time	ms	17.6min.(22typ.)/128min.(160typ.)[AC.100/240V]			

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	Zenor Diode Clamp Metod, output may latch up depending on the condition
Over current protection	Winker operation, output may latch up depending on the condition
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Serial Operation	Yes
Variable output voltage	No

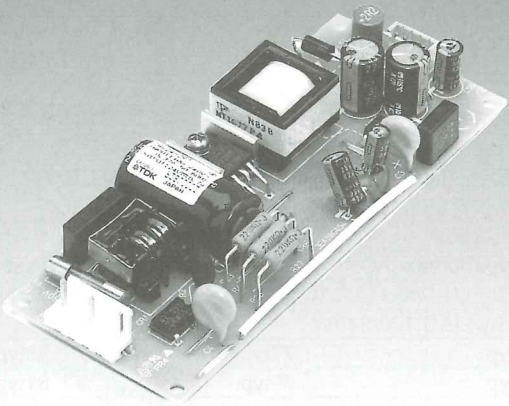
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	No

STRUCTURE

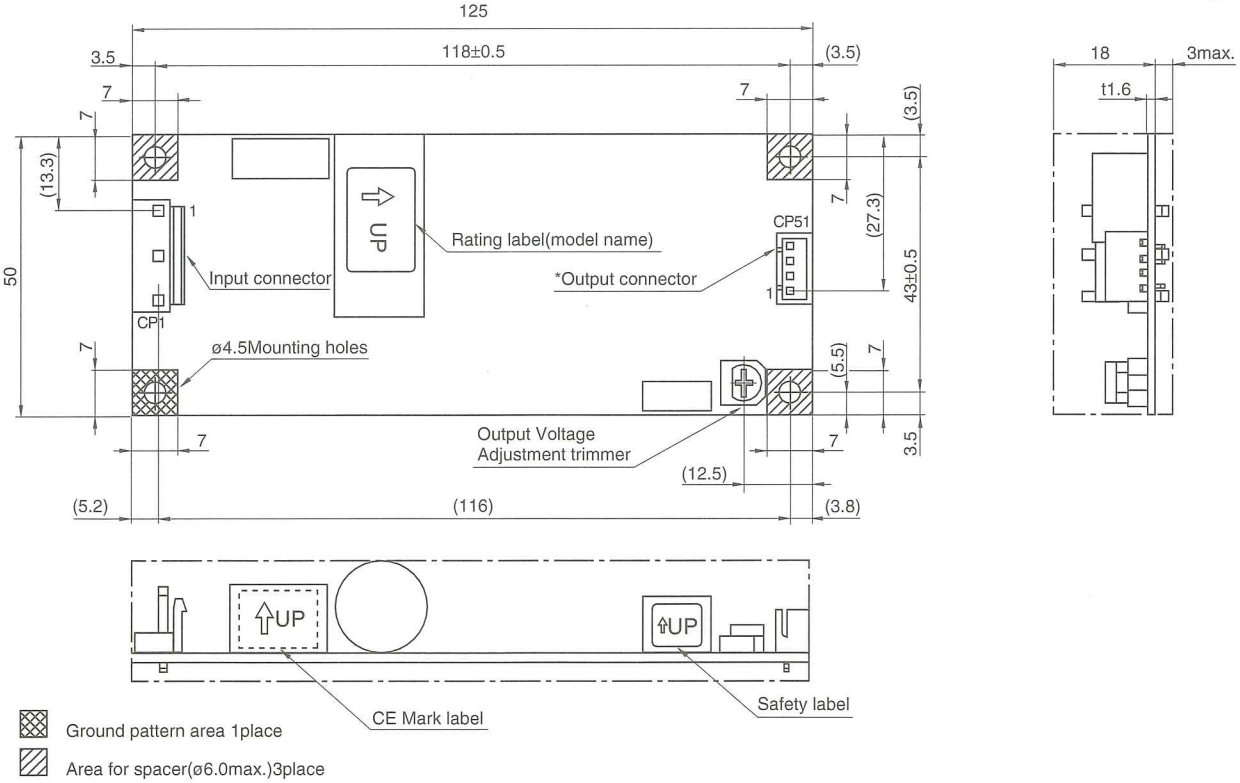
Dimensions	mm	21×50×125[H×W×L]
Weight	g	100max.
Mounting		Acceptable from 1 surface
Case material		No

*1 Maximum rated output current is for -10°C to +50°C.Derating is required if the power supply is used outside of this temperature range.
*2 The power supply output may shut down if the unit is operated below the input voltage range or if the input voltage is caused to rise slowly(more than 1 sec.)on start-up.Output can be recovered by input reclosing after 1 minute.
*3 Cold start by thermistor.
*4 An optional Variable Trimmer is available upon request.



OUTLINE DRAWING

JAW15W Type



J-Series JAW50W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements, Power Factor Correction

SPECIFICATIONS

Model	JAW03-10R	JAW05-10R	JAW12-4R3	JAW24-2R1
Rated output voltage and current*1	3.3V•10A	5V•10A	12V•4.3A	24V•2.1A
Maximum output power	33	50	51.6	50.4

INPUT CHARACTERISTICS

Input voltage Eac	V	85 to 132/170 to 265[Rated : 100-120/200-240]Input autoselect			
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)			
Input current	A	0.55typ./0.65max. 0.3typ./0.35max.	0.87typ./1.0max.[AC.100V] 0.4typ./0.5max.[AC.200V]		
Fuse rating	A	3[AC.250V]			
Surge current	A	15typ./30max.[AC.100V]30typ./60max.[AC.240V]First surge.			
Leakage current	mA	0.55typ./1.0max.[AC.100V, 60Hz]0.65typ./0.75max.[AC.240V, 60Hz]			
Power factor		0.75typ.[AC.100/240V]			
Effeciency	%	100V 73typ.	77typ.	80typ.	81typ.
	%	240V 74typ.	79typ.	81typ.	83typ.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24
Adjustment range Edc	V	2.7 to 3.6	Fixed	Fixed	Fixed
Maximum output current	A	10	10	4.3	2.1
Minimum output current	A	0	0	0	0
Overvoltage setting value Edc	V	3.8 to 4.6	6.0 to 6.9	13.7 to 15.7	27.0 to 30.5
Overcurrent setting value	A	10.5min.	10.5min.	4.5min.	2.2min.

Output voltage stability					
Source effect	%	0.5max.(0.2typ.)[Input Voltage range]			} Combined effect±2.0max.(±1.0typ.)
Load effect	%	1.0max.(0.6typ.)[0 to 100%Load]			
Temperature effect	%	2.0max.(1.0typ.)[Ambient temparature-10 to +50°C]			
Time effect	%	0.5max.(0.2typ.)[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±4max./1max.[50 to 100%Transient time]			
Ripple Ep-p	mV	80max.	80max.	100max.	100max.
Ripple noise Ep-p	mV	120max.	120max.	150max.	200max.
Start up time	ms	400max.(320typ.)/150max.(90typ.)[AC.100/240V]			
Hold up time	ms	20min.(35typ.)/30min.(65typ.)[AC.100/240V]			

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	When overvoltage is detected,the output voltage shuts down.After the input is turned off, an interval of approx.30 seconds is required before resetting.
Over current protection	Square type. After the cause is removed, output voltage should be returned automatically.
Remote ON-OFF control	No(Option available)
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

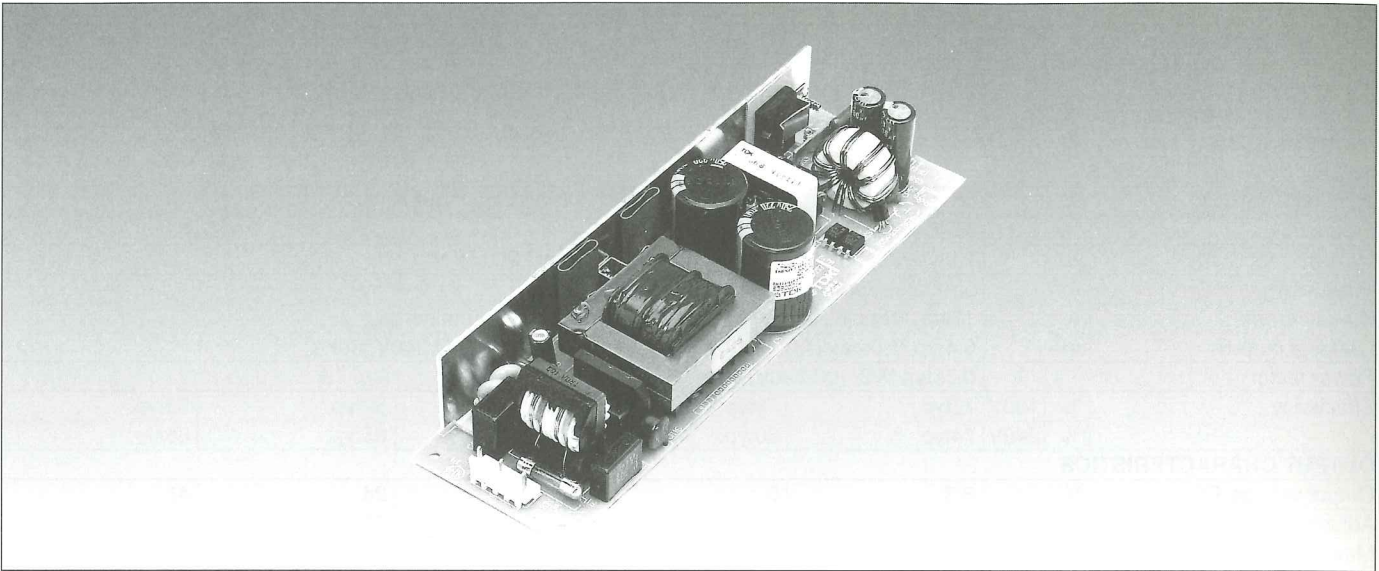
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, IEC950/EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	EN61000-3-2

STRUCTURE

Dimensions	mm	35×55×195[H×W×L]
Weight	g	450max.(380typ.)
Mounting		Acceptable from 1 surface
Case material		No

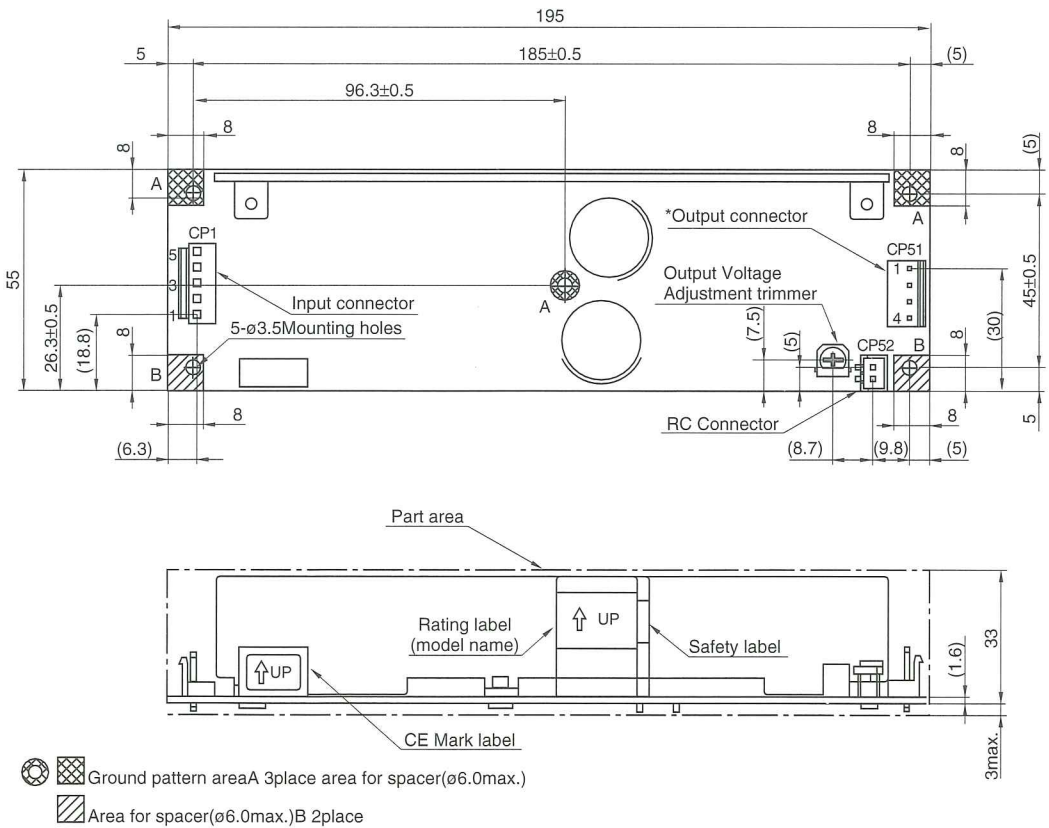
*1 Maximum rated output current is for -10°C to +50°C(standard).Derating is required if the power supply is used outside of this temperature range.



OUTLINE DRAWING

JAW50W Type

Unit : mm
±1mm Tolerance unless other wise specified
Third angle projection



J-Series JAW100W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements, Power Factor Correction

SPECIFICATIONS

Model	JAW03-20R	JAW05-20R	JAW12-8R5	JAW24-4R3	JAW48-2R1
Rated output voltage and current*1	3.3V•20A	5V•20A	12V•8.5A	24V•4.3A	48V•2.1A
Maximum output power	66	100	102	103.2	100.8

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 132/170 to 265[Rated : 100-120/200-240]Input autoselect			
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)			
Input current	A	2.0typ./2.2max.[AC.100V]1.0typ./1.1max.[AC.200V]			
Fuse rating	A	5[AC.250Vprovided]			
Surge current*3	A	15typ./30max.[AC.100V]20typ./30max.[AC.240V]First surge.			
Leakage current	mA	0.4typ./1.0max.[AC.100V, 60Hz]0.65typ./0.75max.[AC.240V, 60Hz]			
Power factor		0.75typ.[AC.100/240V]			
Efficiency	% 100V	72typ.	78typ.	80typ.	82typ.
	% 240V	74typ.	80typ.	82typ.	85typ.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24	48
Adjustment range Edc	V	2.7 to 3.6	4.5 to 5.5	10.8 to 13.2	21.6 to 26.4	43.2 to 52.8
Maximum output current	A	20	20	8.5	4.3	2.1
Minimum output current	A	0	0	0	0	0
Overvoltage setting value Edc	V	3.8 to 4.6	6.0 to 6.9	13.7 to 15.7	27.0 to 30.5	54.0 to 60
Overcurrent setting value	A	21min.	21min.	8.9min.	4.5min.	2.2min.

Output voltage stability

Source effect	%	0.6max.(0.3typ.)	0.4max.(0.2typ.)[Input Voltage range]			} Combined effect±2.2max.(±1.3typ.) ±2.8max.(±1.6typ.)3.3V
Load effect	%	1.2max.(0.9typ.)	0.8max.(0.6typ.)[0 to 100%Load]			
Temperature effect	%	1max.(0.5typ.)[Ambient temperature-10 to +40°C]				
Time effect	%	0.75max.(0.3typ.)	0.5max.(0.2typ.)[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±6max./1max.		±4max./1max.[50 to 100%Transient time]		
Ripple Ep-p	mV	80max.	80max.	100max.	150max.	260max.
Ripple noise Ep-p	mV	120max.	120max.	150max.	200max.	400max.
Start up time	ms	400max.(200typ.)/300max.(70typ.)[AC.100/240V]			400max.(250typ.)/300max.(100typ.)	
Hold up time	ms	22min.(30typ.)	15min.(20typ.)/30min.(40typ.)[AC.100/240V]			
		/45min.(60typ.)				

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	When overvoltage is detected,the output voltage shuts down.After the input is turned off, an interval of approx.30 seconds is required before resetting.
Over current protection	Square type. After the cause is removed, output voltage should be returned automatically.
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

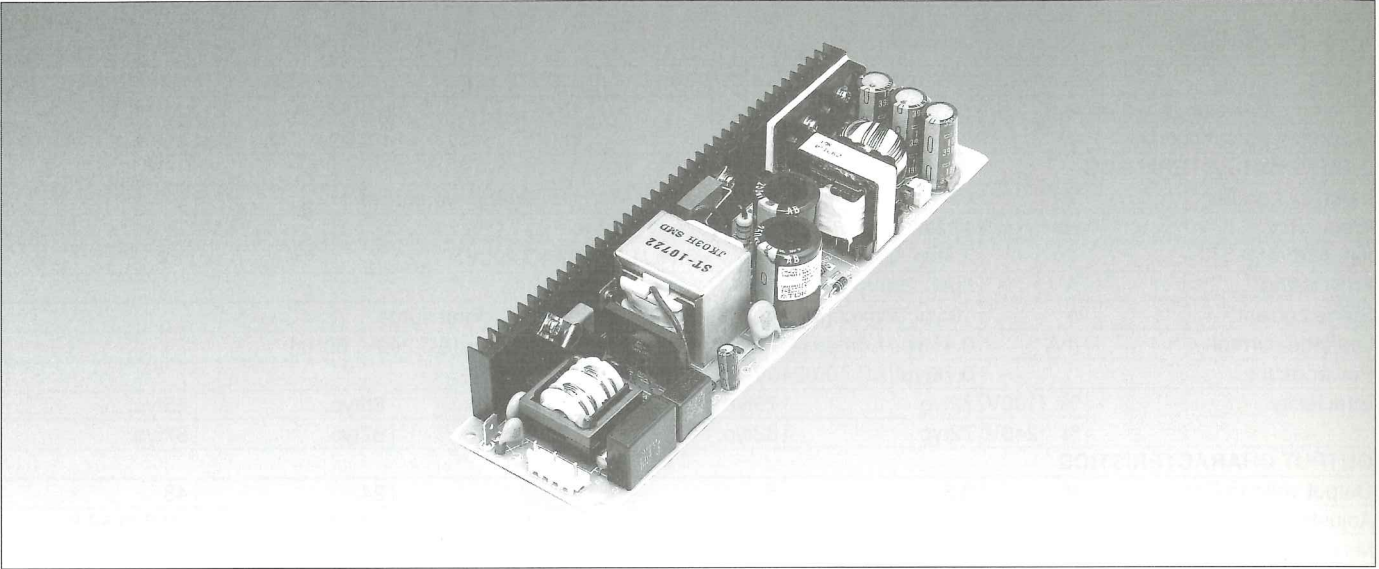
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	EN61000-3-2

STRUCTURE

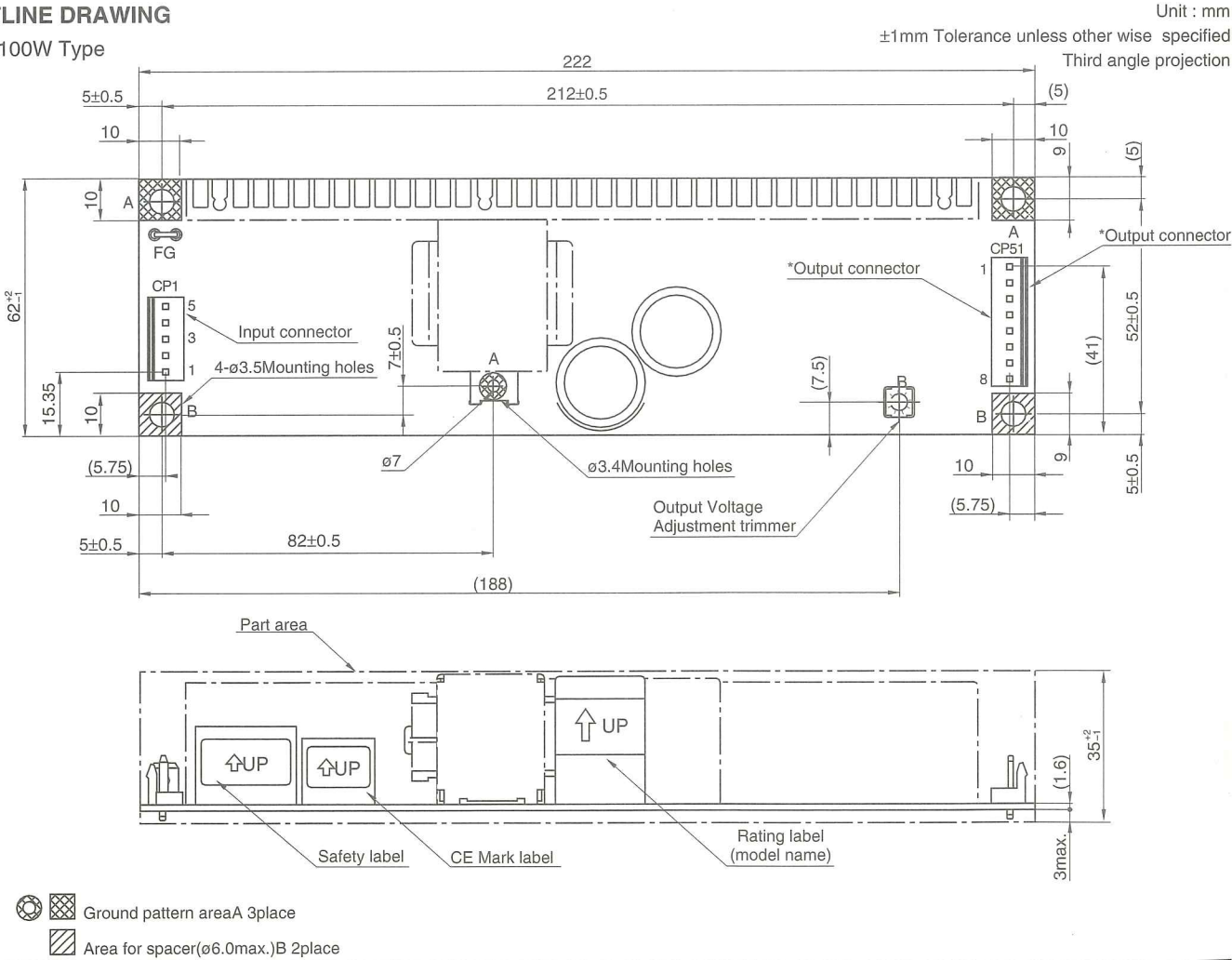
Dimensions	mm	35×62×222[H×W×L]
Weight	g	700max.(600typ.)
Mounting		Acceptable from 1 surface
Case material		No

*1 Maximum rated output current is for -10°C to +40°C(standard).Derating is required if the power supply is used outside of this temperature range.
*2 Warning, the use of input voltage outside of that which is prescribed, may result in the power supply specifications not being met or cause damage.
*3 Cold start by thermistor.



OUTLINE DRAWING

JAW100W Type



J-Series JAW150W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements, Power Factor Correction

SPECIFICATIONS

Model	JAW03-30R	JAW05-30R	JAW12-12R	JAW24-6R3	JAW48-3R2
Rated output voltage and current*1	3.3V•30A	5V•30A	12V•12.5A	24V•6.3A	48V•3.2A
Maximum output power	99	150	150	151.2	153.6

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 132/170 to 265[Rated : 100-120/200-240]Input autoselect				
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)				
Input current	A	2.4typ./3.0max.[AC.100V]1.2typ./1.6max.[AC.200V]				
Fuse rating	A	5[AC.250Vprovided]				
Surge current*3	A	10typ./30max.[AC.100V]30typ./36max.[AC.240V]First surge.				
Leakage current	mA	0.45typ./1.0max.[AC.100V, 60Hz]0.55typ./0.75max.[AC.240V, 60Hz]				
Power factor		0.76typ.[AC.100/240V]				
Effeciency	% 100V	72typ.	79typ.	83typ.	85typ.	85typ.
	% 240V	72typ.	82typ.	85typ.	87typ.	87typ.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24	48
Adjustment range Edc	V	2.7 to 3.6	4.5 to 5.5	10.8 to 13.2	21.6 to 26.4	43.2 to 52.8
Maximum output current	A	30	30	12.5	6.3	3.2
Minimum output current	A	0	0	0	0	0
Overvoltage setting value Edc	V	3.8 to 4.6	6.0 to 6.9	13.7 to 15.7	27.0 to 30.5	54 to 60
Overcurrent setting value	A	31.5min.	31.5min.	13.1min.	6.6min.	3.3min.
Output voltage stability						
Source effect	%	0.6max.	0.4max.(0.2typ.)[Input Voltage range]	Combined effect±2.0max.(±1.0typ.) ±2.8max.(3.3V)		
Load effect	%	1.5max.	1.5max.(0.6typ.)[0 to 100%Load]			
Temperature effect	%	1max.(0.5typ.)[Ambient temperature-10 to +71°C]				
Time effect	%	0.6max.	0.4max.[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±6max./1max.	±4max./1max.[50 to 100%Transient time]			
Ripple noise Ep-p	mV	120max.	120max.	150max.	200max.	400max.
Start up time	ms	500max.(220typ.)/400max.(90typ.)[AC.100/240V]				
Hold up time	ms	15min.(22typ.)/23min.(40typ.)[AC.100/240V]				

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	When overvoltage is detected,the output voltage shuts down.After the input is turned off, an interval of approx.30 seconds is required before resetting.
Over current protection	Square type. After the cause is removed, output voltage should be returned automatically.
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

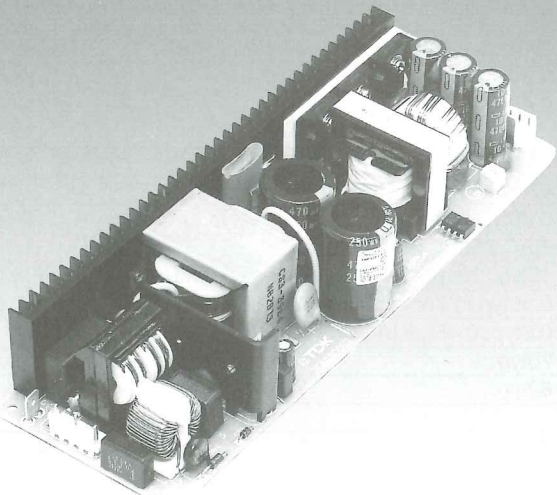
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	EN61000-3-2

STRUCTURE

Dimensions	mm	40×75×222[H×W×L]
Weight	g	900max.(800typ.)
Mounting		Acceptable from 1 surface
Case material		No

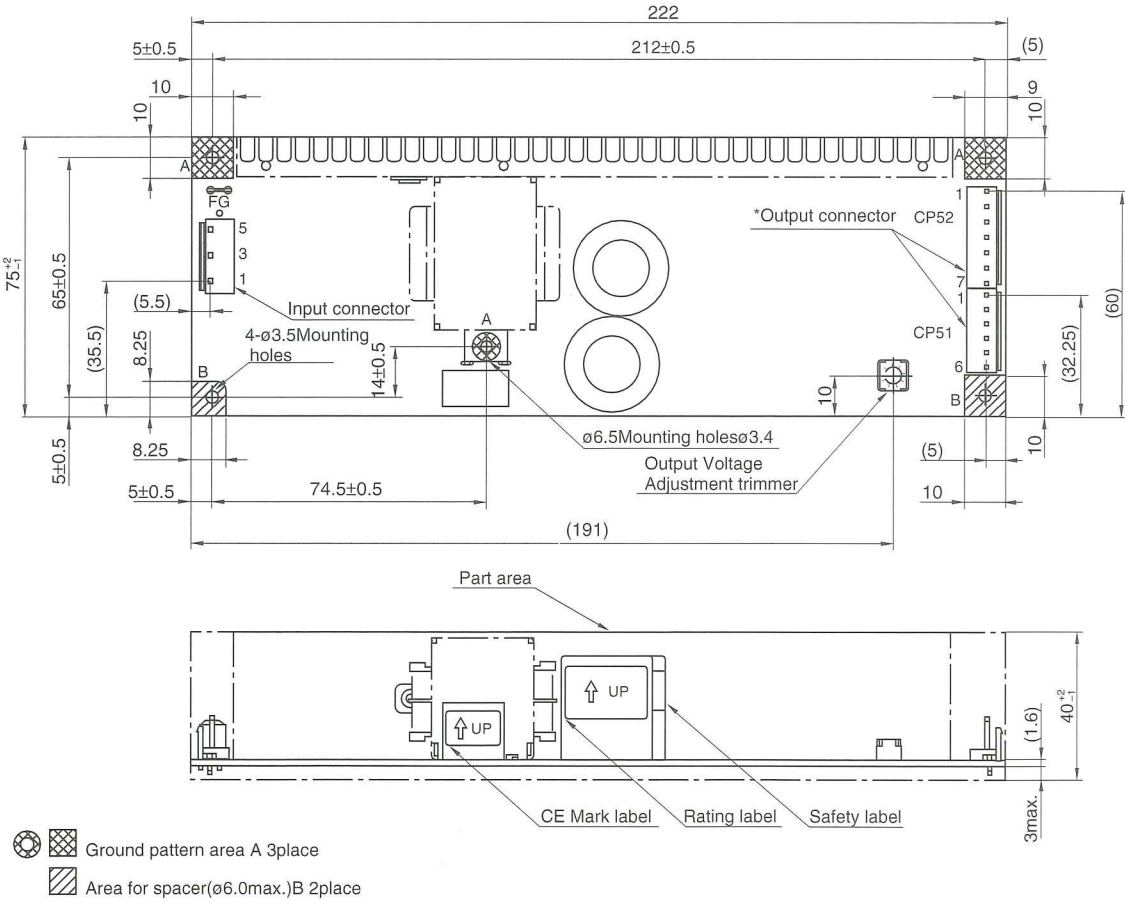
*1 Maximum rated output current is for -10°C to +30°C.Derating is required if the power supply is used outside of this temperature range.
*2 Warning, the use of input voltage outside of that which is prescribed, may result in the power supply specifications not being met or cause damage.
*3 Cold start by thermistor.



OUTLINE DRAWING

JAW150W Type

Unit : mm
±1mm Tolerance unless other wise specified
Third angle projection



J-Series JAW-C10W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements

SPECIFICATIONS

Model	JAW03-2R0C	JAW05-2R0C	JAW12-0R9C	JAW24-0R5C
Rated output voltage and current*1	3.3V•2A	5V•2A	12V•0.9A	24V•0.5A
Maximum output power	W	6.6	10	10.8
12				

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 265[Rated : 100-240]			
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)			
Input current	A	0.26typ./0.3max.[AC.100V]0.14typ./0.18max.[AC.240V]			
Fuse rating	A	2[AC.250V]			
Surge current	A	15typ.(20max.)[AC.100V]30typ.(40max.)[AC.240V]First surge.			
Leakage current	mA	0.35typ./0.75max.[AC.100V, 60Hz]0.5typ./1.5max.[AC.240V, 60Hz]			
Power factor		0.6typ./0.45typ.[AC.100/240V]			
Efficiency	%	100V	70typ.	75typ.	75typ.
	%	240V	62typ.	70typ.	72typ.
				75typ.	73typ.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24
Adjustment range Edc*3	V	2.7 to 3.6	Fixed	Fixed	Fixed
Maximum output current	A	2	2	0.9	0.5
Minimum output current	A	0	0	0	0
Overvoltage setting value Edc	V	3.7min.	5.6min.	13.3min.	26.5min.
Overcurrent setting value	A	2.1min.	2.1min.	0.91min.	0.51min.

Output voltage stability

Source effect	%	0.4max.[Input Voltage range]			
Load effect	%	0.8max.[0 to 100%Load]			
Temperature effect	%	2max.[Ambient temperature-10 to +40°C]			
Time effect	%	0.4max.[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±4max./1max.[50 to 100%Transient time]			
Ripple Ep-p	mV	100max.	100max.	130max.	160max.
Ripple noise Ep-p	mV	120max.	120max.	150max.	200max.
Start up time	ms	650max.(500typ.) /240max.(180typ.) [AC.100/240V]		1040max.(800typ.) /420max.(320typ.) [AC.100/240V]	

Hold up time	ms	18min.(25typ.) /166min.(212typ.) [AC.100/240V]	12min.(17typ.)/110min.(140typ.)[AC.100/240V]
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AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	Zenor Diode Clamp Metod, output may latch up depending on the condition
Over current protection	Winker operation, output may latch up depending on the condition
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

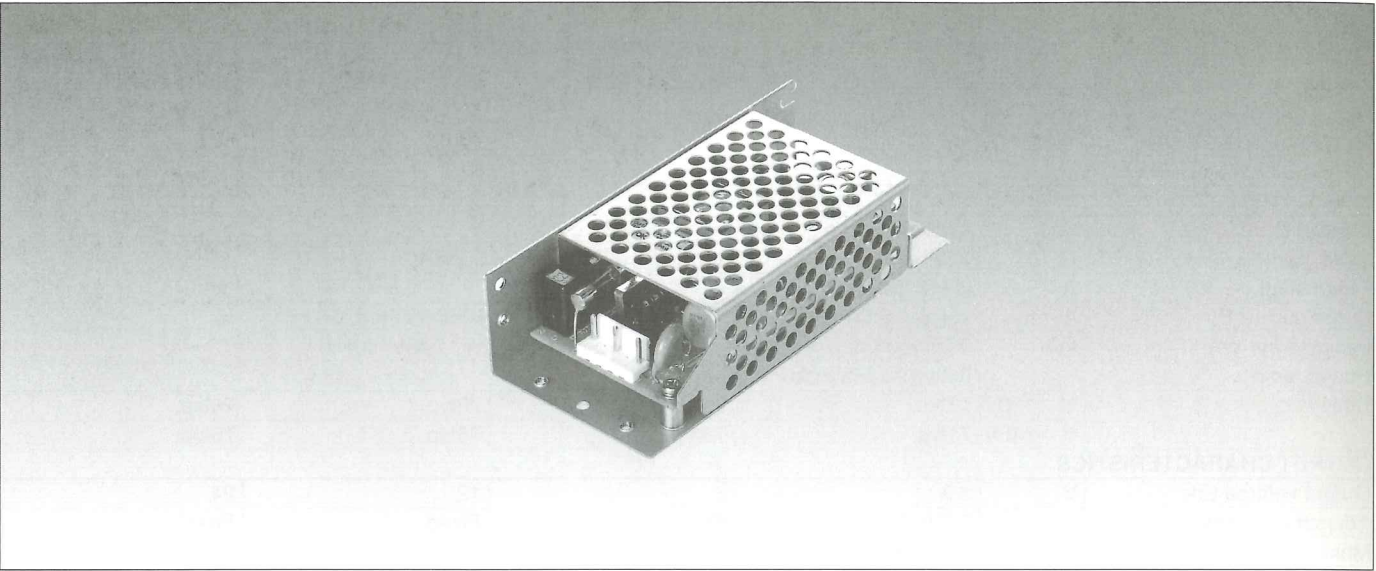
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	No

STRUCTURE

Dimensions	mm	32×56.5×125[H×W×L]
Weight	g	180max.
Mounting		Acceptable from 2 surface
Case material(Frame/cover)		Zinc-coated steel

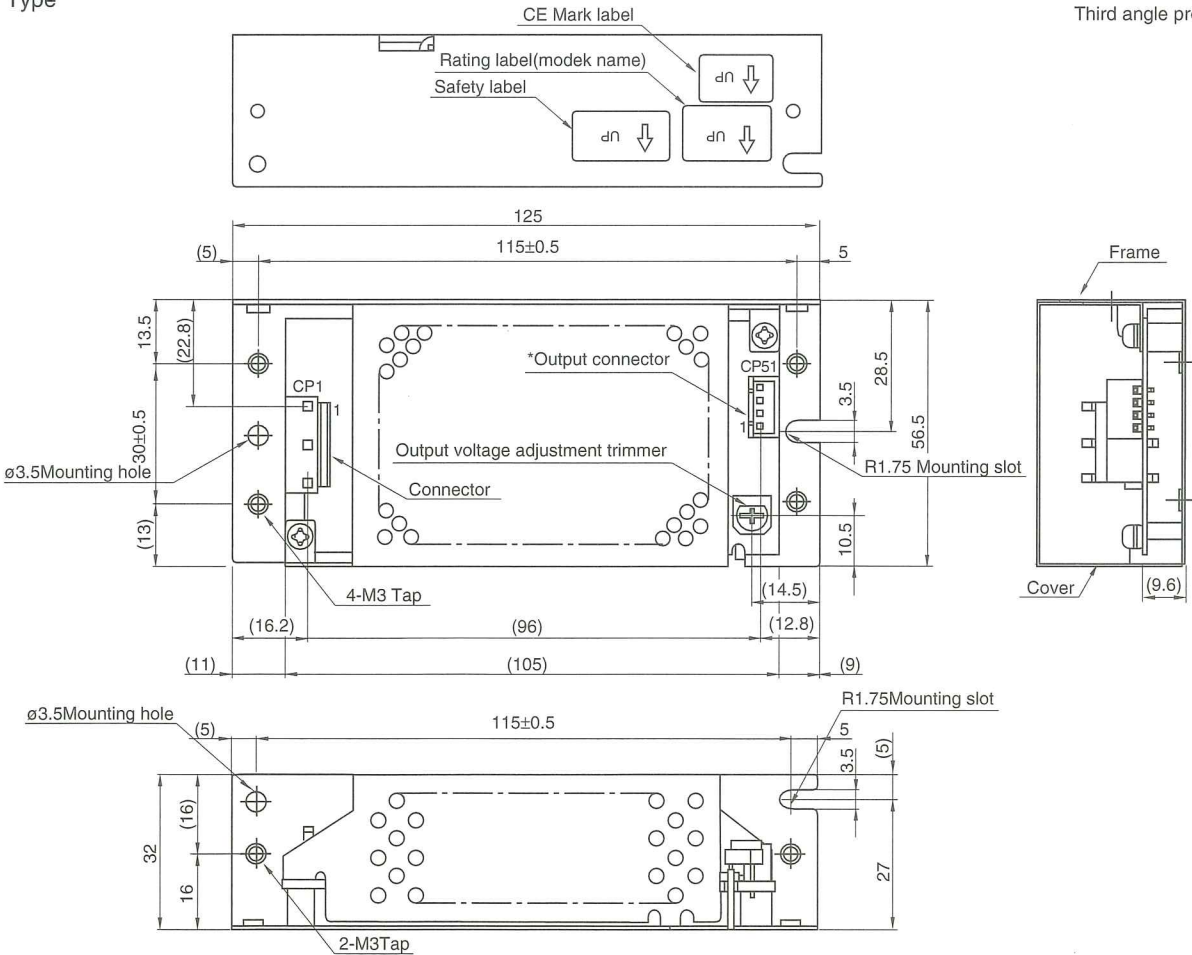
*1 Maximum rated output current is for -10°C to +40°C.Derating is required if the power supply is used outside of this temperature range.
*2 The power supply output may shut down if the unit is operated below the input voltage range or if the input voltage is caused to rise slowly(more than 1 sec.)on start-up.Output can be recovered by input reclosing after 1minute.
*3 An optional Variable Trimmer is available upon request.



OUTLINE DRAWING

JAW-C10W Type

Unit : mm
±1mm Tolerance unless other wise specified
Third angle projection



J-Series JAW-C15W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements

SPECIFICATIONS

Model	JAW03-3R0C	JAW05-3R0C	JAW12-1R3C	JAW24-0R7C
Rated output voltage and current*1	3.3V•3A	5V•3A	12V•1.3A	24V•0.7A
Maximum output power	9.9	15	15.6	16.8

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 265[Rated : 100-240]			
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)			
Input current	A	0.36typ./0.43max.[AC.100V]0.20typ./0.24max.[AC.240V]			
Fuse rating	A	2[AC.250V]			
Surge current*3	A	15typ./19.5max.[AC.100V]33typ./41max.[AC.240V]First surge.			
Leakage current	mA	0.35typ./1max.[AC.100V, 60Hz]0.5typ./0.75max.[AC.240V, 60Hz]			
Power factor		0.6typ./0.45typ.[AC.100/240V]			
Effeciency	% 100V	73typ.	76typ.	78typ.	79typ.
	% 240V	71typ.	76typ.	76typ.	78typ.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24
Adjustment range Edc*4	V	2.7 to 3.6	Fixed	Fixed	Fixed
Maximum output current	A	3	3	1.3	0.7
Minimum output current	A	0	0	0	0
Overvoltage setting value Edc	V	3.7min.	5.6min.	13.3min.	26.5min.
Overcurrent setting value	A	3.1min.	3.1min.	1.31min.	0.71min.

Output voltage stability

Source effect	%	0.4max.[Input Voltage range]			
Load effect	%	0.8max.[0 to 100%Load]			
Temperature effect	%	2max.[Ambient temperature-10 to +40°C]			
Time effect	%	0.4max.[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±4max./1max.[50 to 100%Transient time]			
Ripple Ep-p	mV	80max.	80max.	120max.	120max.
Ripple noise Ep-p	mV	120max.	120max.	150max.	150max.
Start up time	ms	900max.(700typ.)/330max.(260typ.)[AC.100/240V]			
Hold up time	ms	17.6min.(22typ.)/128min.(160typ.)[AC.100/240V]			

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	Zenor Diode Clamp Metod, output may latch up depending on the condition
Over current protection	Winker operation, output may latch up depending on the condition
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

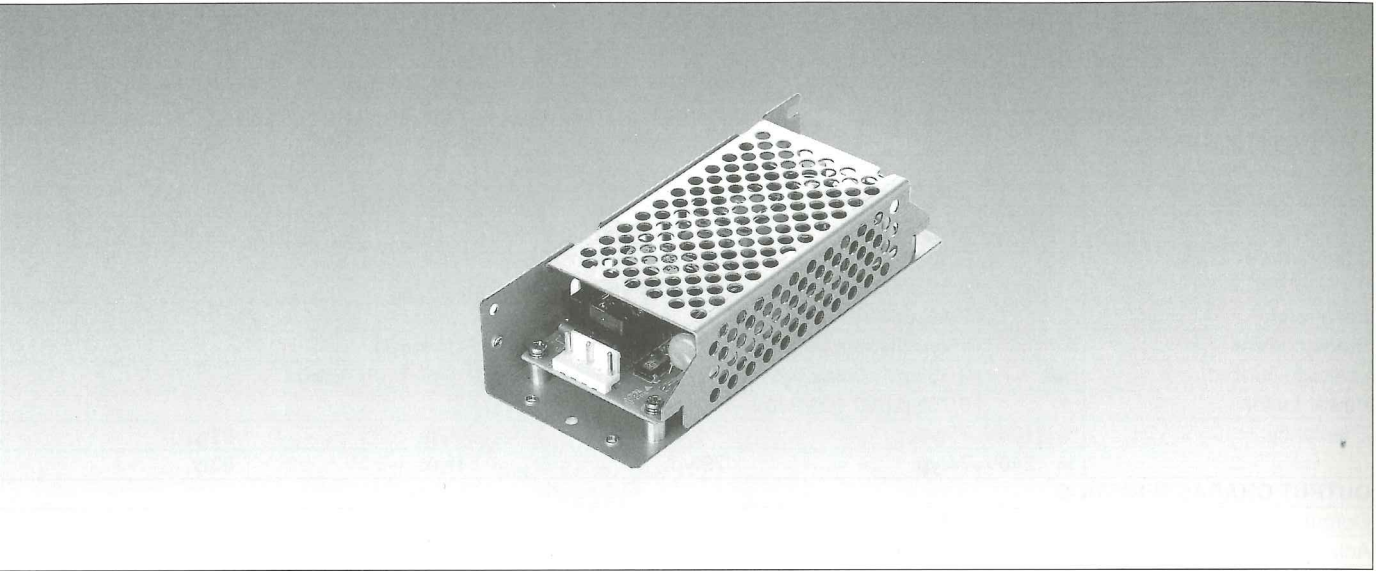
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	No

STRUCTURE

Dimensions	mm	32×57×145[H×W×L]
Weight	g	250max.
Mounting		Acceptable from 2 surface
Case material(Frame/cover)		Zinc-coated steel

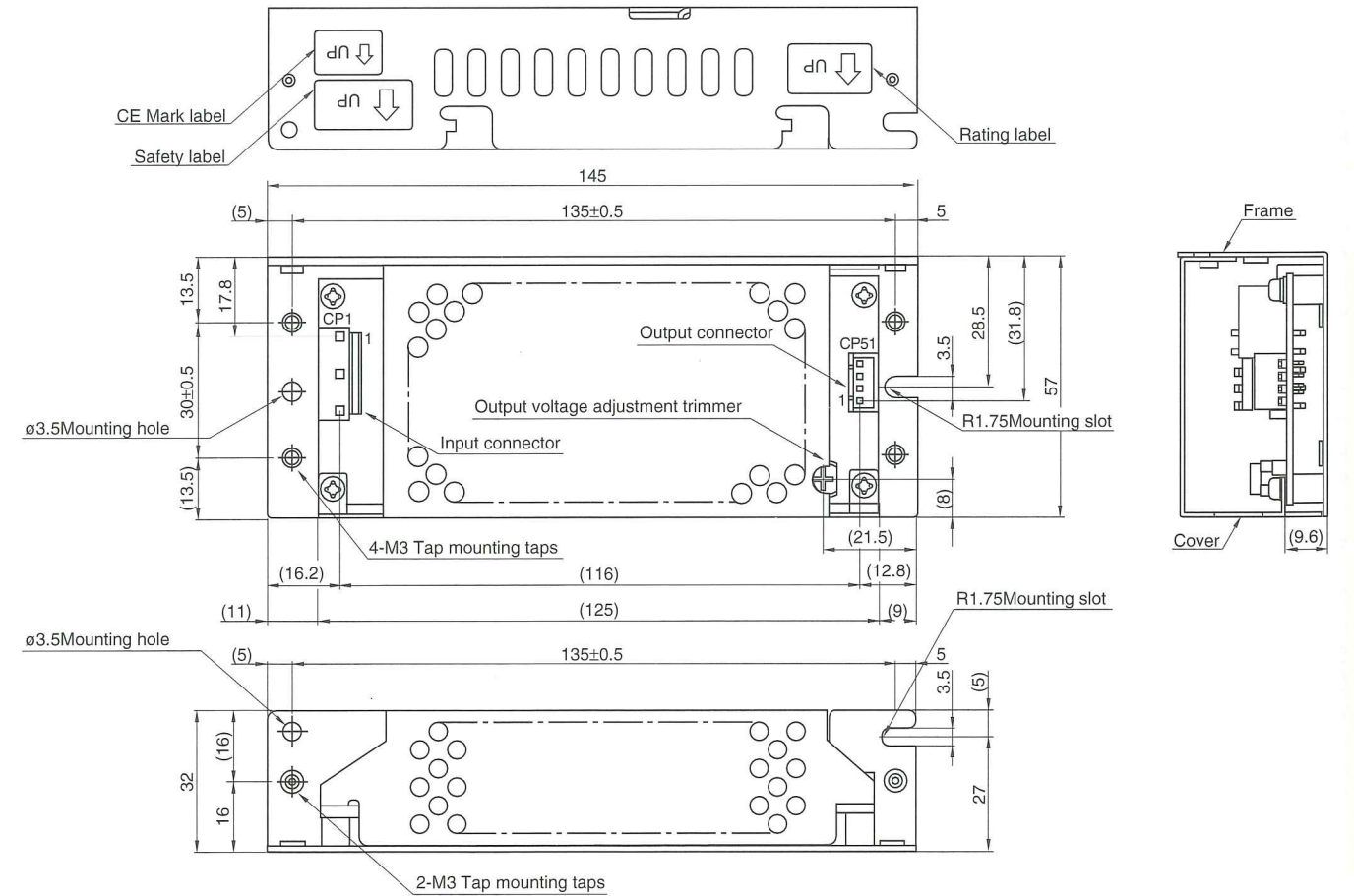
*1 Maximum rated output current is for -10°C to +40°C.Derating is required if the power supply is used outside of this temperature range.
*2 The power supply output may shut down if the unit is operated below the input voltage range or if the input voltage is caused to rise slowly(more than 1 sec.)on start-up.Output can be recovered by input reclosing after 1minute.
*3 Cold start by thermistor.
*4 An optional Variable Trimmer is available upon request.



OUTLINE DRAWING

JAW-C15W Type

Unit : mm
±1mm Tolerance unless other wise specified
Third angle projection



J-Series JAW-C50W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements, Power Factor Correction

SPECIFICATIONS

Model		JAW03-10RC	JAW05-10RC	JAW12-4R3C	JAW24-2R1C
Rated output voltage and current*1		3.3V•10A	5V•10A	12V•4.3A	24V•2.1A
Maximum output power	W	33	50	51.6	50.4

INPUT CHARACTERISTICS

Input voltage Eac ^{*2}	V	85 to 132/170 to 265[Rated : 100-120/200-240]Input autoselect				
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)				
Input current	A	0.55typ./0.65max. 0.3typ./0.35max.	0.87typ./1.0max.[AC.100V 0.4typ./0.5max.[AC.200V]			
Fuse rating	A	3[AC.250V]				
Surge current	A	15typ./30max.[AC.100V]30typ./60max.[AC.240V]First surge.				
Leakage current	mA	0.55typ./1.0max.[AC.100V, 60Hz]0.65typ./0.75max.[AC.240V, 60Hz]				
Power factor		0.75typ.[AC.100/240V]				
Effeciency	%	100V	73typ.	77typ.	80typ.	81typ.
	%	240V	74typ.	79typ.	81typ.	83ty

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24
Adjustment range Edc	V	2.7 to 3.6	Fixed	Fixed	Fixed
Maximum output current	A	10	10	4.3	2.1
Minimum output current	A	0	0	0	0
Overvoltage setting value Edc	V	3.8 to 4.6	6.0 to 6.9	13.7 to 15.7	27.0 to 30.5
Overcurrent setting value	A	10.5min.	10.5min.	4.5min.	2.2min.

Output voltage stability					
Source effect	%	0.5max.(0.2typ.)[Input Voltage range]			} Combined effect±2.0max(±1.0typ.)
Load effect	%	1.0max.(0.6typ.)[0 to 100%Load]			
Temperature effect	%	2.0max.(1.0typ.)[Ambient temperature-10 to +50°C]			
Time effect	%	0.5max.(0.2typ.)[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±4max./1ms max.[50 to 100%Transient time]			
Ripple Ep-p	mV	80max.	80max.	100max.	100max.
Ripple noise Ep-p	mV	120max.	120max.	150max.	200max.
Start up time	ms	400max.(320typ.)/150max.(90typ.)[AC.100/240V]			
Hold up time	ms	20min.(35typ.)/30min.(65typ.)[AC.100/240V]			

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	When overvoltage is detected,the output voltage shuts down.After the input is turned off, an interval of approx.30 seconds is required before resetting.
Over current protection	Square type. After the cause is removed, output voltage should be returned automatically.
Remote ON-OFF control	No(Option available)
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

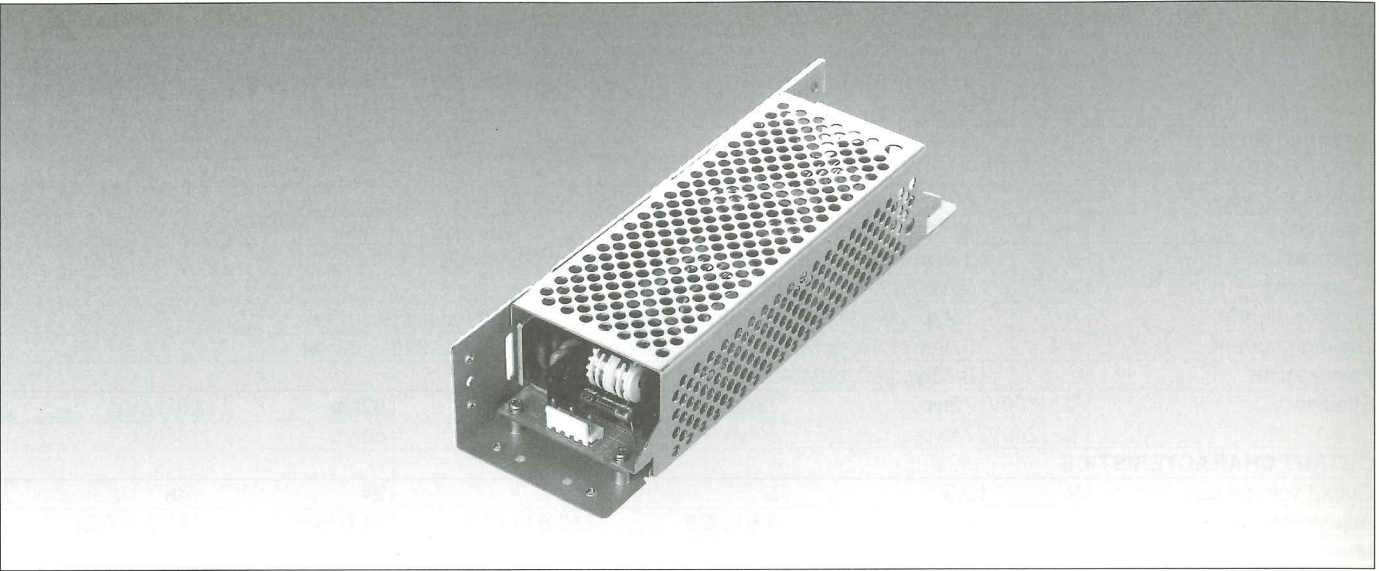
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, IEC950/EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	EN61000-3-2

STRUCTURE

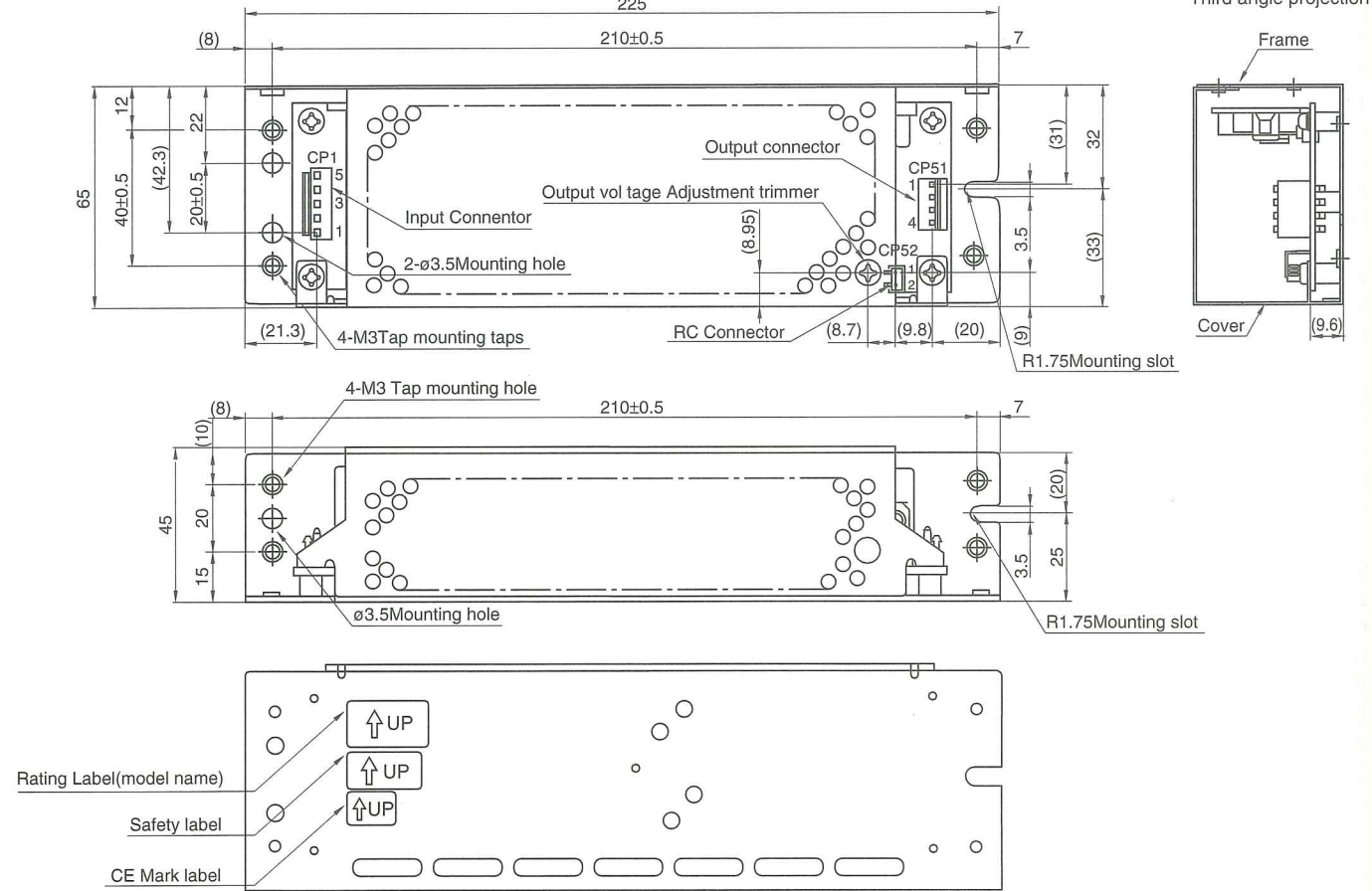
Dimensions	mm	45×65×225[H×W×L]
Weight	g	750max.(650typ.)
Mounting		Acceptable from 2 surface
Case material(Frame/cover)		Zinc-coated steel

*1 Maximum rated output current is for -10°C to +40°C(standard mounting).Derating is required if the power supply is used outside of this temperature range.
*2 Warning, the use of input voltage outside of that which is prescribed, may result in the power supply specifications not being met or cause damage.



OUTLINE DRAWING

JAW-C50W Type



J-Series JAW-C100W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements, Power Factor Correction

SPECIFICATIONS

Model	JAW03-20RC	JAW05-20RC	JAW12-8R5C	JAW24-4R3C	JAW48-2R1C
Rated output voltage and current*1	3.3V•16A	5V•16A	12V•6.8A	24V•3.5A	48V•1.7A
Maximum output power	52.8	80.0	81.6	84.0	81.6

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 132/170 to 265[Rated : 100-120/200-240]				
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)				
Input current	A	1.6yp./1.75max.[AC.100V]0.8typ./0.88max.[AC.200V]				
Fuse rating	A	5[AC.250V]				
Surge current*3	A	15typ./30max.[AC.100V]20typ./30max.[AC.240V]First surge.				
Leakage current	mA	0.4typ./1.0max.[AC.100V, 60Hz]0.65typ./0.75max.[AC.240V, 60Hz]				
Power factor		0.75typ.[AC.100/240V]				
Efficiency	% 100V	72typ.	78typ.	80typ.	82typ.	82typ.
	% 240V	74typ.	80typ.	82typ.	85typ.	85typ.

OUTPUT CHARACTERISTICS

Output voltage Edc	V	3.3	5	12	24	48
Adjustment range Edc	V	2.7 to 3.6	4.5 to 5.5	10.8 to 13.2	21.6 to 26.4	43.2 to 52.8
Maximum output current	A	16	16	6.8	3.5	1.7
Minimum output current	A	0	0	0	0	0
Overvoltage setting value Edc	V	3.8 to 4.6	6.0 to 6.9	13.7 to 15.7	27.0 to 30.5	54.0 to 60
Overcurrent setting value	A	21min.	21min.	8.9min.	4.5min.	2.2min.

Output voltage stability

Source effect	%	0.6max.(0.3typ.)	0.4max.(0.2typ.)[Input Voltage range]				Combined effect±2.2max.(±1.3typ.) ±2.8max.(±1.6typ.)3.3V
Load effect	%	1.2max.(0.9typ.)	0.8max.(0.6typ.)[0 to 100%Load]				
Temperature effect	%	1max.(0.5typ.)[Ambient temperature-10 to +40°C]					
Time effect	%	0.75max.(0.3typ.)	0.5max.(0.2typ.)[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]				
Transient recovery characteristics	%/ms	±6/1max.		±4/1max.[50 to 100%Transient time]			
Ripple Ep-p	mV	80max.	80max.	100max.	150max.	260max.	
Ripple noise Ep-p	mV	120max.	120max.	150max.	200max.	400max.	
Start up time	ms	400max.(200typ.)/300max.(70typ.)[AC.100/240V]				400max.(250typ.)/300max.(100typ.)	
Hold up time	ms	27min.(36typ.) /54min.(72typ.)	18min.(24typ.)/36min.(48typ.)[AC.100/240V]				

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	When overvoltage is detected,the output voltage shuts down.After the input is turned off, an interval of approx.30 seconds is required before resetting.
Over current protection	Square type. After the cause is removed, output voltage should be returned automatically.
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

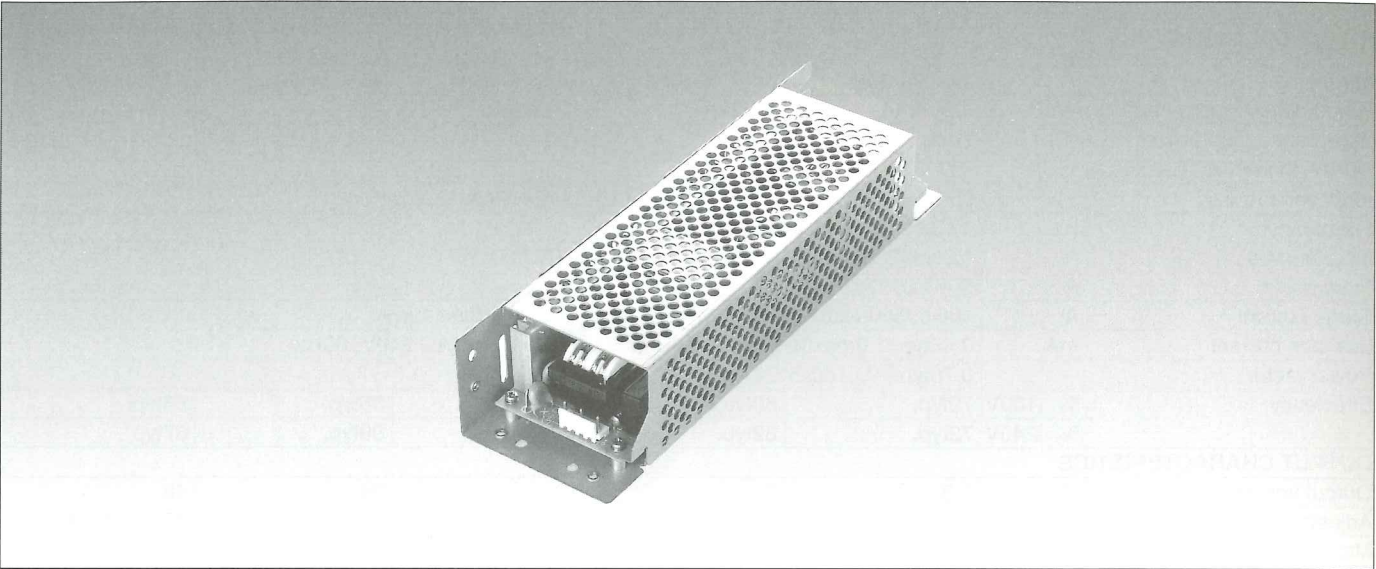
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	EN61000-3-2

STRUCTURE

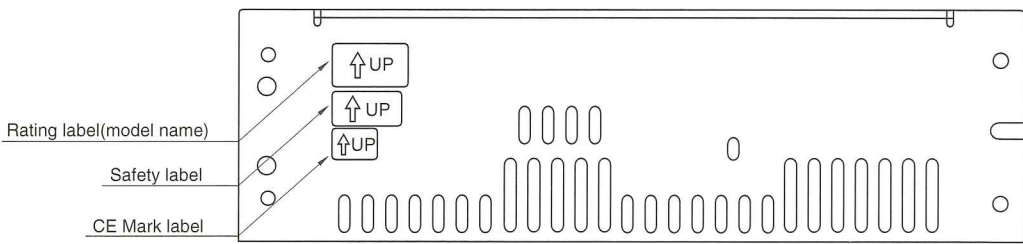
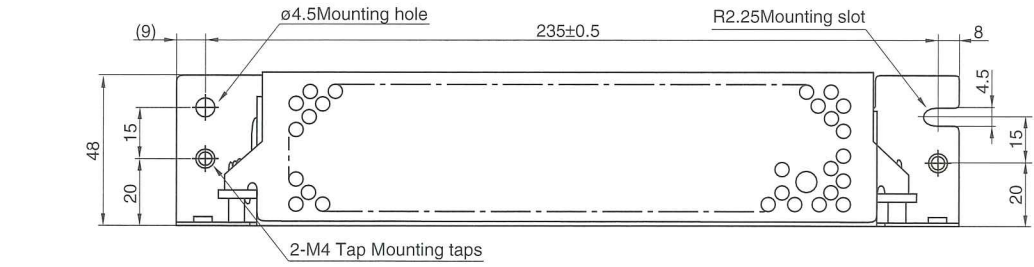
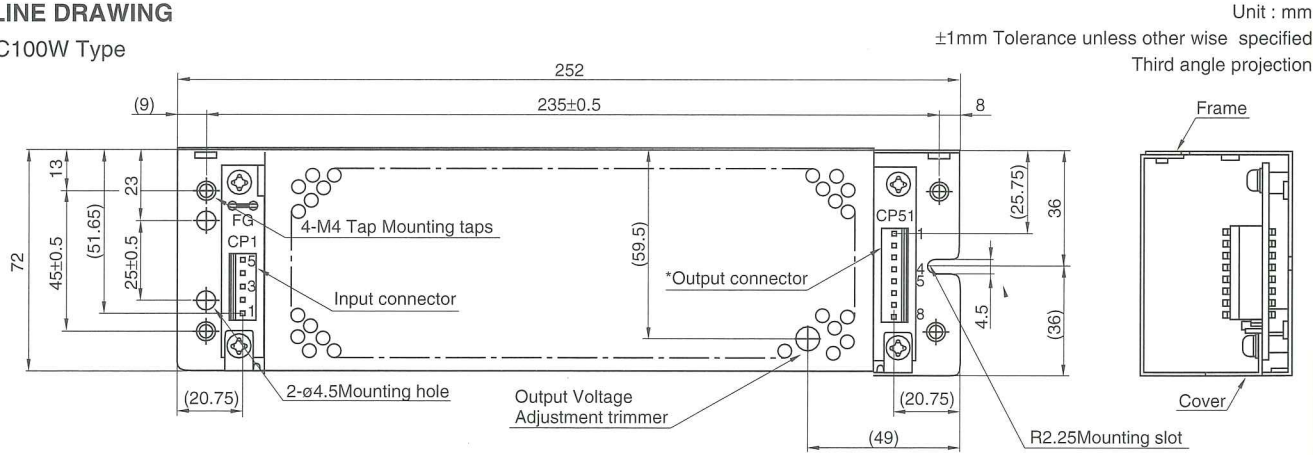
Dimensions	mm	48×72×252[H×W×L]
Weight	g	1100max.(900typ.)
Mounting		Acceptable from 2 surface
Case material(Frame/cover)		Zinc-coated steel

*1 Maximum rated output current is for -10°C to +25°C(standard mounting).Derating is required if the power supply is used outside of this temperature range.
*2 Warning, the use of input voltage outside of that which is prescribed, may result in the power supply specifications not being met or cause damage.
*3 Cold start by thermistor.



OUTLINE DRAWING

JAW-C100W Type



J-Series JAW-C150W

UL1950,CSA C22.2 No.950-95, EN60950(CB), Conforms to DENTORI, CE Requirements, Power Factor Correction

SPECIFICATIONS

Model		JAW03-30RC	JAW05-30RC	JAW12-12RC	JAW24-6R3C	JAW48-3R2C
Rated output voltage and current*1		3.3V•24A	5V•24A	12V•10A	24V•5.1A	48V•2.6A
Maximum output power	W	79.2	120	120	122.4	124.8

INPUT CHARACTERISTICS

Input voltage Eac*2	V	85 to 132/170 to 265[Rated : 100-120/200-240]Input autoselect				
Frequency	Hz	47 to 66[Rated : 50-60](Single phase)				
Input current	A	1.9typ./2.4max.[AC.100V]0.9typ./1.3max.[AC.200V]				
Fuse rating	A	5[AC.250Vprovided]				
Surge current*3	A	10typ./30max.[AC.100V]30typ./36max.[AC.240V]First surge.				
Leakage current	mA	0.45typ./1.0max.[AC.100V, 60Hz]0.55typ./0.75max.[AC.240V, 60Hz]				
Power factor		0.76typ.[AC.100/240V]				
Effeciency	% 100V	72typ.	80typ.	84typ.	86typ.	86typ.
	% 240V	72typ.	82typ.	85typ.	88typ.	87typ.

OUTPUT CHARACTERISTICS

Output voltage E _{dc}	V	3.3	5	12	24	48
Adjustment range E _{dc}	V	2.7 to 3.6	4.5 to 5.5	10.8 to 13.2	21.6 to 26.4	43.2 to 52.8
Maximum output current	A	24	24	10	5.1	2.6
Minimum output current	A	0	0	0	0	0
Overvoltage setting value E _{dc}	V	3.8 to 4.6	6.0 to 6.9	13.7 to 15.7	27.0 to 30.5	54 to 60
Overcurrent setting value	A	31.5min.	31.5min.	13.1min.	6.6min.	3.3min.
Output voltage stability						
Source effect	%	0.6max.	0.4max.(0.2typ.)[Input Voltage range]		} Combined effect±2.0max.(±1.0typ.) ±2.8max.(3.3V)	
Load effect	%	1.5max.	1.5max.(0.6typ.)[0 to 100%Load]			
Temperature effect	%	1max.(0.5typ.)[Ambient temperature-10 to +71°C]				
Time effect	%	0.6max.	0.4max.[25°C, Rated input and output, 30minutes to 8 hours from the time of input voltage application.]			
Transient recovery characteristics	%/ms	±6max.	±4max.[50 to 100%Transient time]			
Ripple noise E _{p-p}	mV	120max.	120max.	150max.	200max.	400max.
Start up time	ms	500max.(220typ.)/400max.(90typ.)[AC.100/240V]				
Hold up time	ms	15min.(22typ.)/23min.(40typ.)[AC.100/240V]				

AUXILIARY FUNCTIONS

Indicator Display	No
Over voltage protection	When overvoltage is detected,the output voltage shuts down.After the input is turned off, an interval of approx.30 seconds is required before resetting.
Over current protection	Square type. After the cause is removed, output voltage should be returned automatically.
Remote ON-OFF control	No
Remote sensing	No
Parallel operation	No
Series operation	Yes
Variable output voltage	No

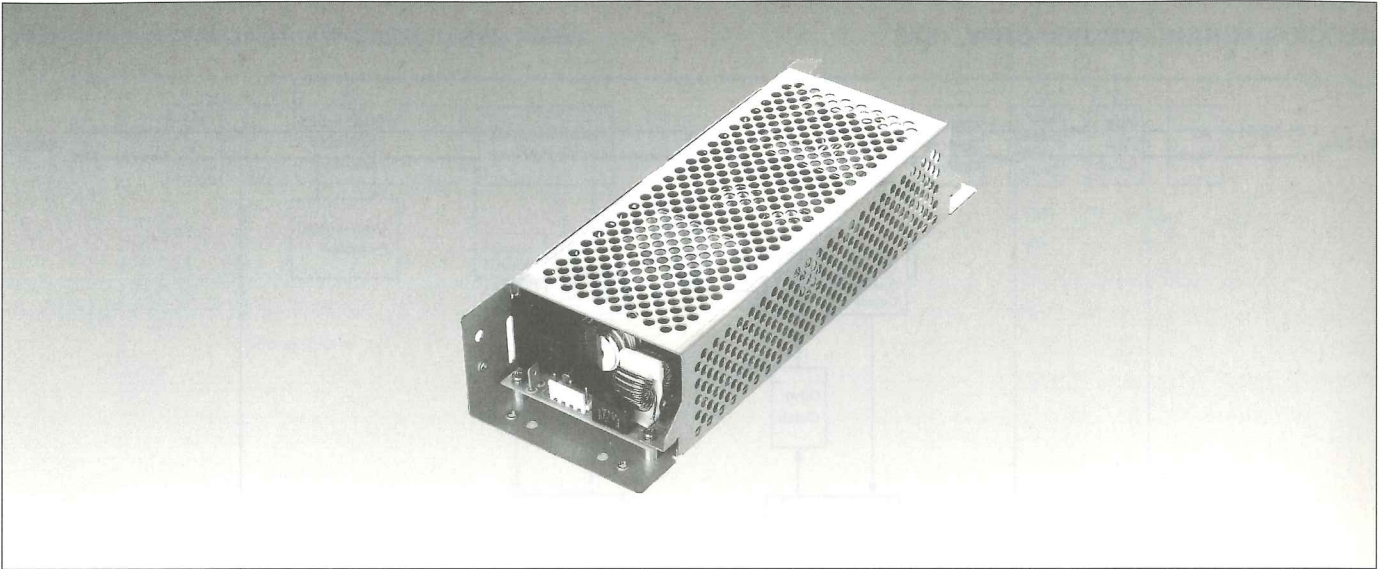
SPECIFICATIONS

Safety approval	UL1950, CSA C22.2 No.950-95, EN60950(CB), Assistance DENTORI
Conductive noise	FCC-B, VCCI-B, EN55011-B, EN55022-B
Harmonics current regulation	EN61000-3-2

STRUCTURE

Dimensions	mm	50×85×252[H×W×L]
Weight	g	1200max.(1100typ.)
Mounting		Acceptable from 2 surface
Case material(Frame/cover)		Zinc-coated steel

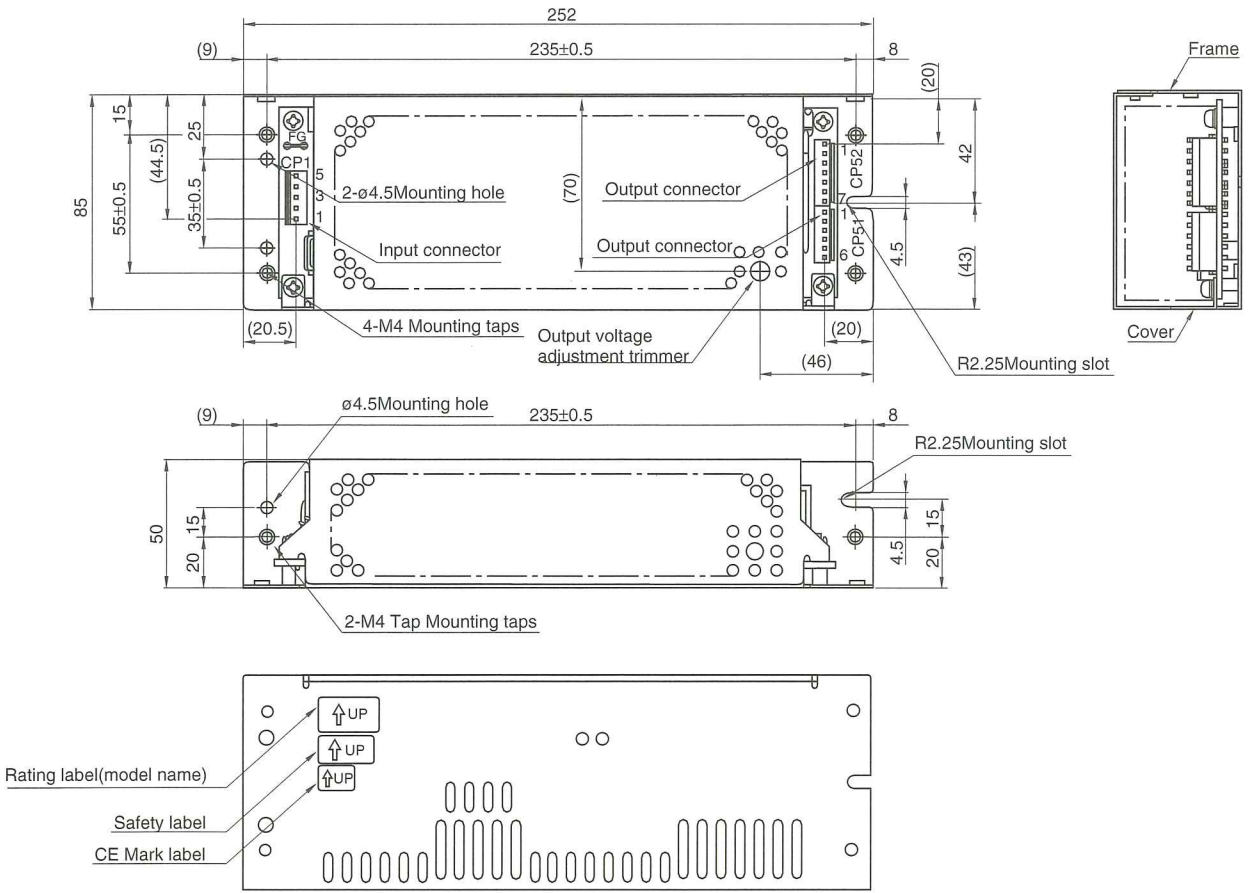
*1 Maximum rated output current is for - 10°C to +30°C.Derating is required if the power supply is used outside of this temperature range.
*2 Warning, the use of input voltage outside of that which is prescribed, may result in the power supply specifications not being met or cause damage.
*3 Cold start by thermistor.



OUTLINE DRAWING

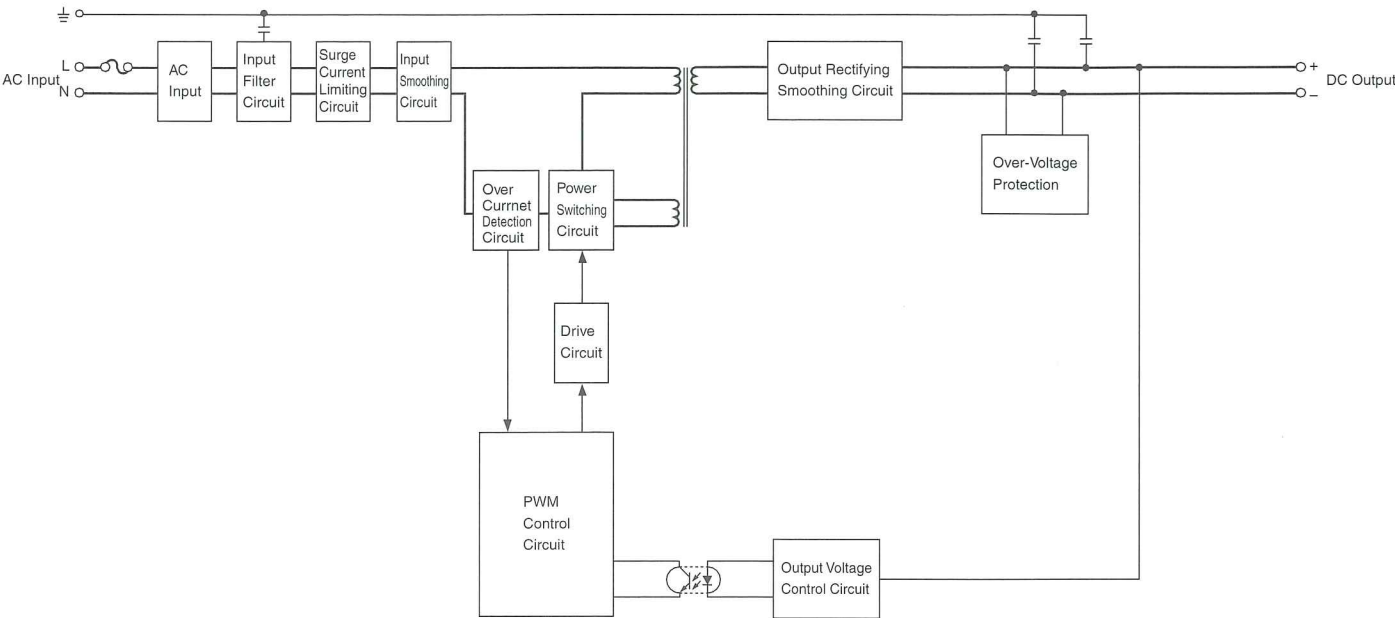
JAW-C150W Type

Unit : mm
±1mm Tolerance unless other wise specified
Third angle projection



Characteristics/Functions/Applications

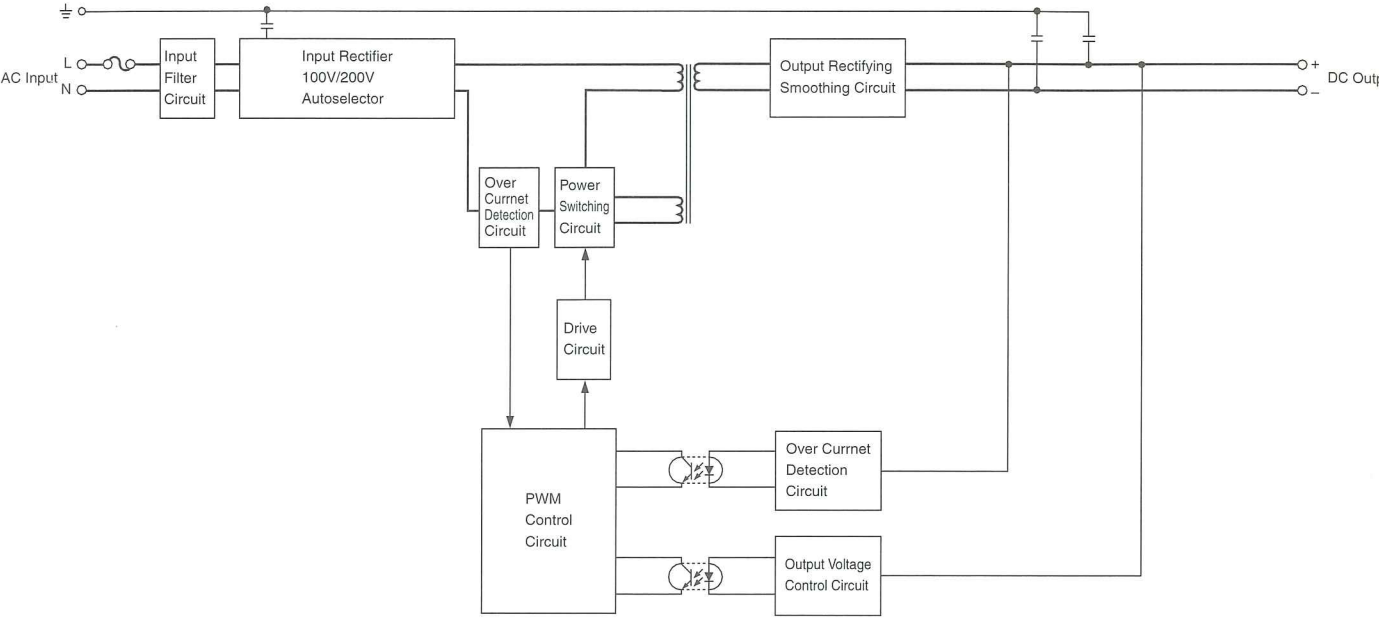
BLOCK DIAGRAM(JAW/JAW-C10W, 15W)



COMMON SPECIFICATIONS

Model		JAW(Open frame)	JAW-C(With Cover)
TEMPERATURE/HUMIDITY			
Temperature [Standard Mounting]	Operation(°C)	10W -10 to +60 Derating necessary from 50°C to +60°C	-10 to +40 (Maximum operate 40°C)
		15W -10 to +60 Derating necessary from 50°C to +60°C	-10 to +50 Derating necessary from 40°C to +50°C
	Storage(°C)	-20 to +75	
Humidity	Operation(%)RH Storage(%)RH	20 to 90 Wet bulb temperature ≤35°C, no condensation	
VIBRATION/SHOCK			
Vibration	5 to 10Hz	Amplitude10mm(3 Shocks, 1h to each axis)	
	10 to 200Hz	Acceleration29.4m/s² [3G](3 Shocks, 1h to each axis)	
Shock	Acceleration	588m/s² [60G](3 Shocks each axis)	
	Duration	11±5ms	
WITHSTAND VOLTAGE/INSULATION RESISTANCE			
Withstand voltage	Input terminal-Output terminal	Eac3(kV), 1min(Normal temperature, normal humidity, Cutout current 20mA)	
	Input terminal-⏏ Ground terminal	Eac2(kV), 1min(Normal temperature, normal humidity, Cutout current 20mA)	
	Output terminal-⏏ Ground terminal	Eac500(V), 1min(Normal temperature, normal humidity, Cutout current 20mA)	
Insulation resistance	Input terminal-Output terminal	Edc500(V), 100MΩmin.(Normal temperature, normal humidity)	
	Input terminal-⏏ Ground terminal		
	Output terminal-⏏ Ground terminal		

BLOCK DIAGRAM(JAW/JAW-C50W, 100W, 150W)



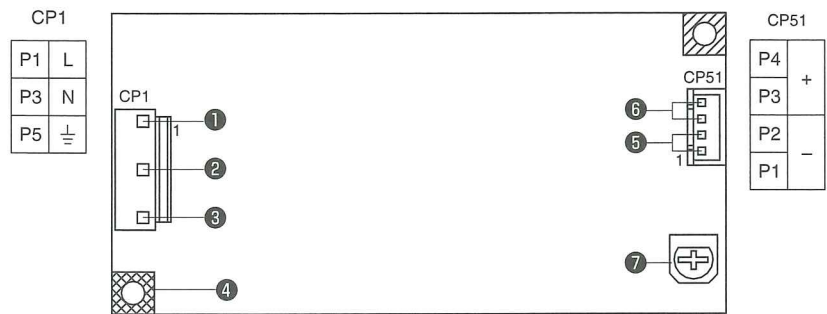
COMMON SPECIFICATIONS

Model		JAW(Open frame)		JAW-C(With Cover)	
TEMPERATURE/HUMIDITY					
Temperature [Standard Mounting]	Operation(°C)	50W -10 to +71	Derating necessary for operation from 50°C to 71°C		Derating necessary for operation from 40°C to 60°C
		100W -10 to +71	Derating necessary for operation from 40°C to 71°C		Derating necessary for operation from 25°C to 71°C
		150W -10 to +71	Derating necessary for operation from 30°C to 71°C		Derating necessary for operation from 30°C to 71°C
	Storage(°C)	-20 to +75			
Humidity	Operation(%RH)	20 to 90 Wet bulb temperature ≤ 35°C, no condensation			
	Storage(%RH)				
VIBRATION/SHOCK					
Vibration	5 to 10Hz	Amplitude10mm(3 Shocks, 1h to each axis)			
	10 to 200Hz				
Shock	Acceleration	588m/s ² [60G](3 Shocks each axis)			
	Duration				
		11±5ms			
WITHSTAND VOLTAGE/INSULATION RESISTANCE					
Withstand voltage	Input terminal-Output terminal	Eac3(kV), 1min(Normal temperature, normal humidity, Cutout current 20mA)			
	Input terminal-⏏ Ground terminal	Eac2(kV), 1min(Normal temperature, normal humidity, Cutout current 20mA)			
	Output terminal-⏏ Ground terminal	Eac500(V), 1min(Normal temperature, normal humidity, Cutout current 20mA)			
Insulation resistance	Input terminal-Output terminal	Edc500(V), 100MΩmin.(Normal temperature, normal humidity)			
	Input terminal-⏏ Ground terminal				
	Output terminal-⏏ Ground terminal				

Characteristics/Functions/Applications

TERMINAL DESIGNATIONS AND AUXILIARY FUNCTIONS

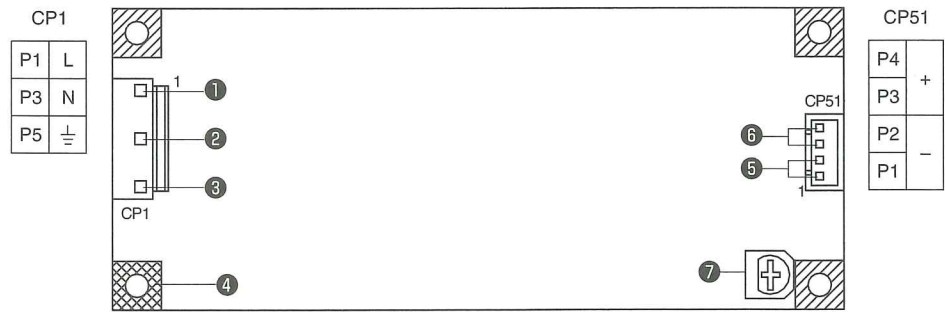
JAW/JAW-C10W



- ① Input connector(L)
- ② Output connector(N)
- ③ Ground terminal($\perp$)
- ④ Ground pad
- ⑤ Output terminal(-)
- ⑥ Output terminal(+)
- ⑦ Trimmer for output voltage adjust (Optional)

Connectors Japan Solderless terminal Mfg. Co.,Ltd	Power Supply Side	Cable Side	
		Housing	Terminal
Input Connector(CP1)VH Series	B3P5-VH-B	VHR-5N	SVH-21T-P1.1
Output Connector(CP51)XH Series	B4B-XH-2	XHP-4	SXH-001T-P0.6

JAW/JAW-C15W

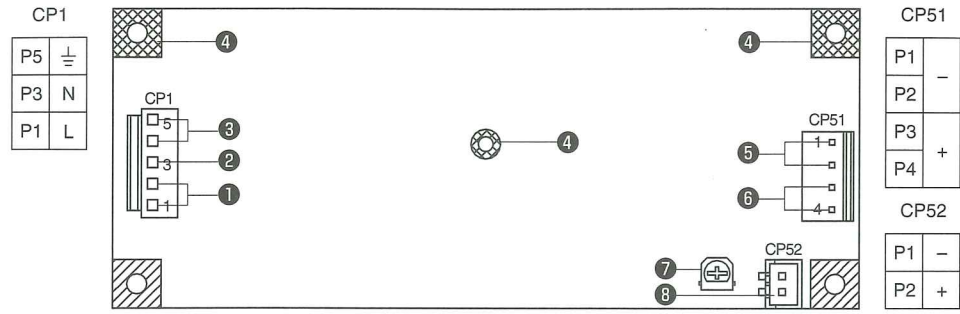


- ① Input connector(L)
- ② Output connector(N)
- ③ Ground terminal($\perp$)
- ④ Ground pad
- ⑤ Output terminal(-)
- ⑥ Output terminal(+)
- ⑦ Trimmer for output voltage adjust (Optional)

Connectors Japan Solderless terminal Mfg. Co.,Ltd	Power Supply Side	Cable Side	
		Housing	Terminal
Input Connector(CP1)VH Series	B3P5-VH-B	VHR-5N	SVH-21T-P1.1
Output Connector(CP51)XH Series	B4B-XH-2	XHP-4	SXH-001T-P0.6

TERMINAL DESIGNATIONS AND AUXILIARY FUNCTIONS

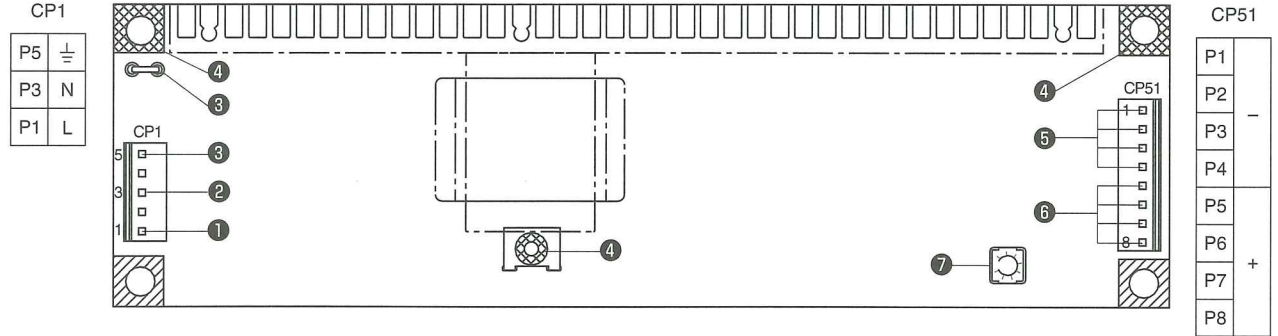
JAW/JAW-C50W



- ① Input connector(L)
- ② Output connector(N)
- ③ Ground terminal($\perp$)
- ④ Ground pad
- ⑤ Output terminal(-)
- ⑥ Output terminal(+)
- ⑦ Trimmer for output voltage adjust (Optional)
- ⑧ RC(For optional Remote Control)

Connectors Japan Solderless terminal Mfg. Co.,Ltd	Power Supply Side	Cable Side	
		Housing	Terminal
Input Connector(CP1)VH Series	B3P5-VH-B	VHR-5N	SVH-21T-P1.1
Output Connector(CP51)XH Series	B4P-VH-B	VHR-4N	SVH-21T-P1.1
RC Connector(CP52)XH Series	B2B-XH-2	XHP-2	SXH-001T-P0.6

JAW/JAW-C100W



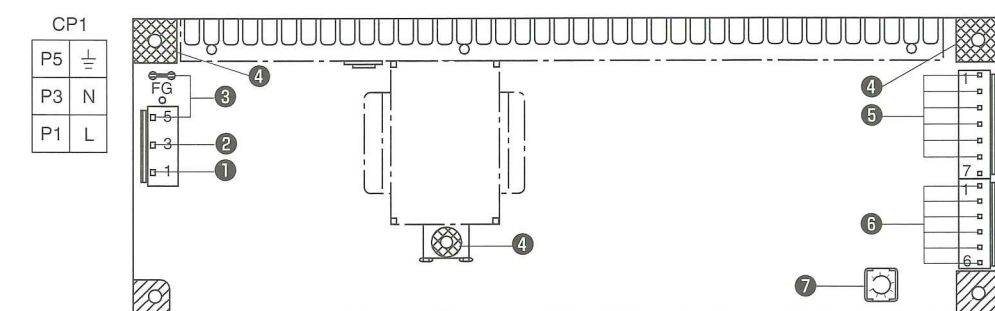
- ① Input connector(L)
- ② Output connector(N)
- ③ Ground terminal($\perp$)
- ④ Ground pad
- ⑤ Output terminal(-)
- ⑥ Output terminal(+)
- ⑦ Output voltage adjustment terminal

Connectors Japan Solderless terminal Mfg. Co.,Ltd	Power Supply Side	Cable Side	
		Housing	Terminal
Input Connector(CP1)VH Series	B3P5-VH-B	VHR-5N	SVH-21T-P1.1
Output Connector(CP51)XH Series	B8P-VH-B	VHR-8N	SVN-21T-P1.1

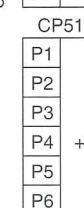
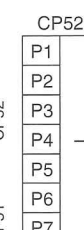
Characteristics/Functions/Applications

TERMINAL DESIGNATIONS AND AUXILIARY FUNCTIONS

JAW/JAW-C150W



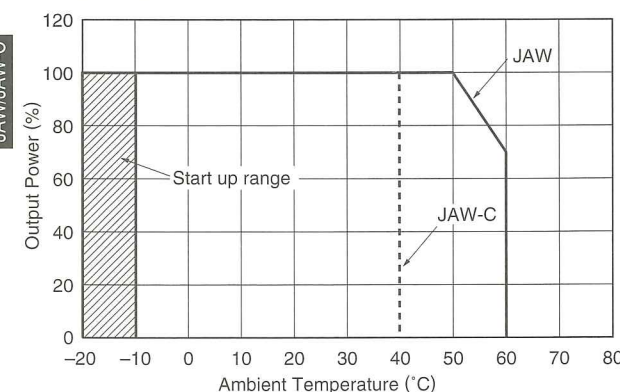
Connectors Japan Solderless terminal Mfg. Co.,Ltd	Power Supply Side	Cable Side	
		Housing	Terminal
Input Connector(CP1)VH Series	B3P5-VH-B	VHR-5N	SVH-21T-P1.1
Output Connector(CP51)VH Series	B6P-VH-B(+ end)	VHR-6N	SVH-21T-P1.1
(CP52)VH Series	B7P-VH-B(- end)	VHR-7N	SVH-21T-P1.1



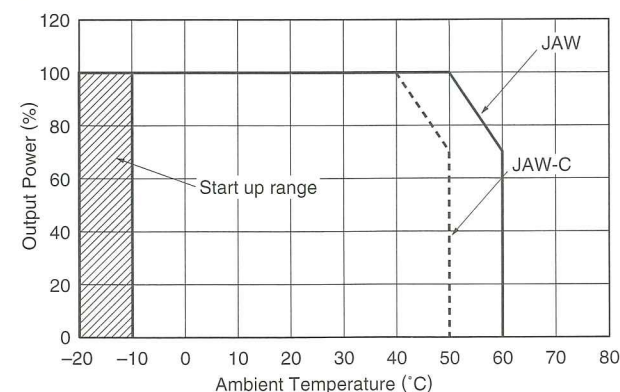
- ① Input connector(L)
- ② Output connector(N)
- ③ Ground terminal($\perp$)
- ④ Ground pad
- ⑤ Output terminal(-)
- ⑥ Output terminal(+)
- ⑦ Output voltage adjustment terminal

• Output-Ambient temperature(Power derating)

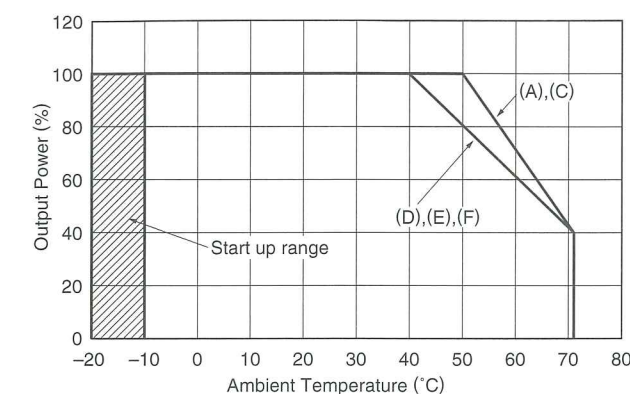
JAW/JAW-C10W



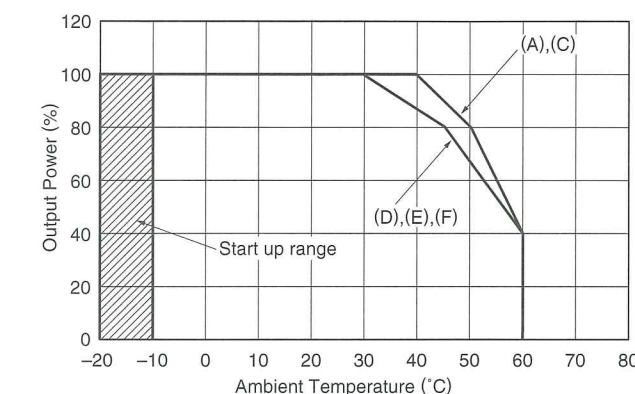
JAW/JAW-C15W



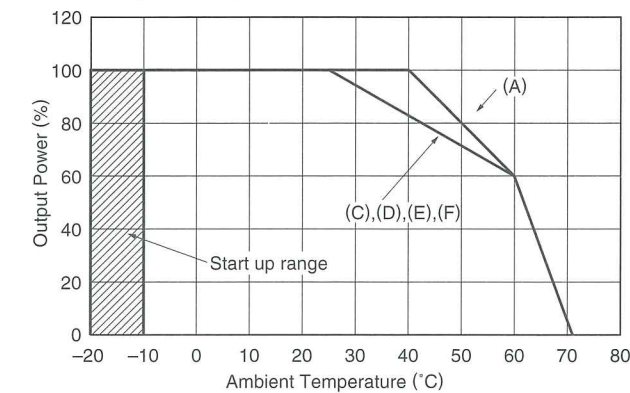
JAW50W(No cover)



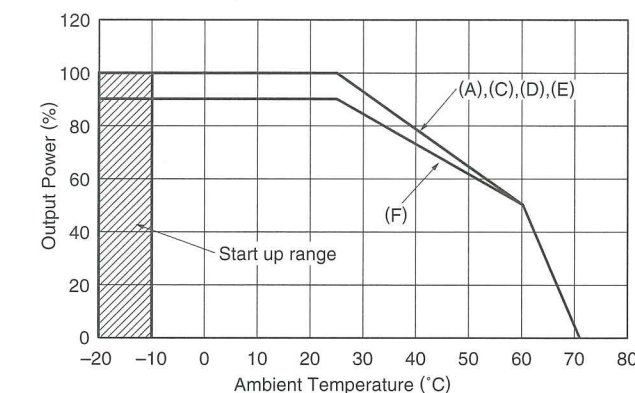
JAW-C50W(cover)



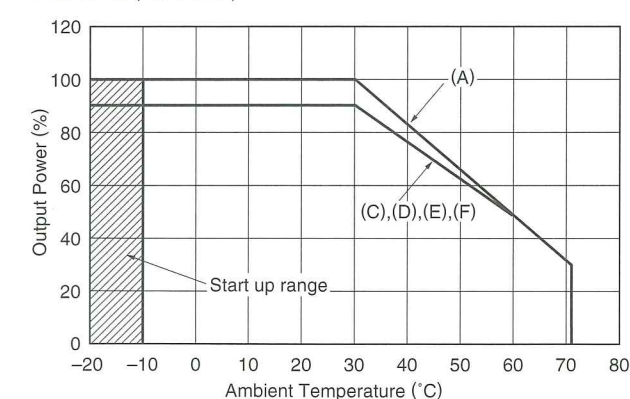
JAW100W(No cover)



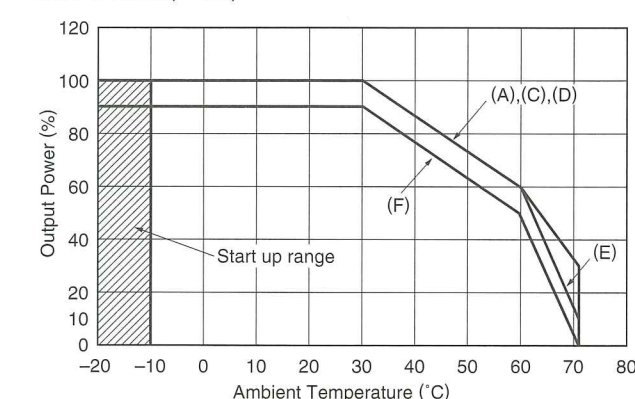
JAW-C100W(cover)



JAW150W(No cover)



JAW-C150W(cover)



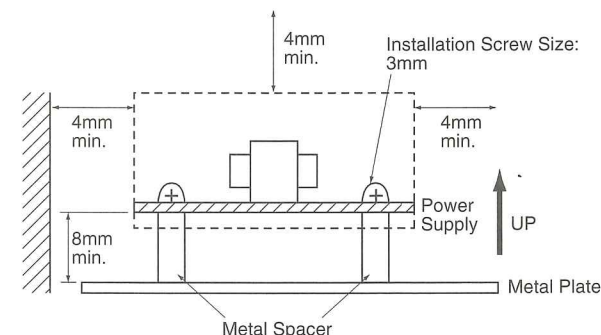
Note:(A),(C),(D),(E),(F) indicate installation direction. Refer to the next page for installation.

Characteristics/Functions/Applications

• Installation:

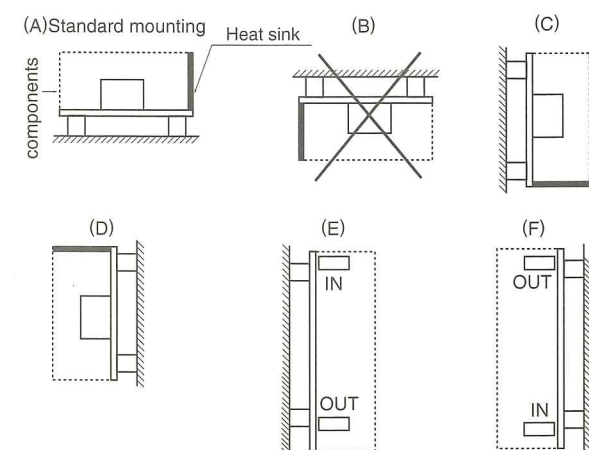
- 1) Attach a metal spacer to each of the 4 corners of the power supply. (2 corners for 10W models).
- 2) For JAW50W to 150W and JAW-C50W to 150W models: attach a metal spacer also at the installation hole provided in the middle of the pwb.
- 3) Maintain a min. 4mm clearance distance in order to satisfy insulation and high voltage safety requirements.
- 4) Insert an insulation board under the power supply if a 4mm installation space cannot be guaranteed.
- 5) Provide a min. 10mm distance between heat sink and cover surfaces and surrounding objects.
- 6) Because components are mounted on the back (solder) side of the unit, sufficient care should be taken when handling the power supply to protect the pwb from shock, vibration, twisting, etc. Which can result in damage caused by cracked chip components.

Standard Installation Direction:



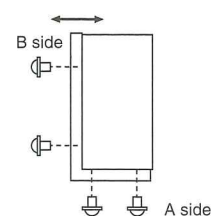
Other Installation Directions:

Apart from the standard installation direction (A), there are also directions (B) to (F), (B) cannot be used because it will cause heat to be trapped inside the power supply. The output power and ambient temperature for installation directions (C) to (F) are not the same as that for direction (A). Refer to the derating curve on the previous page.

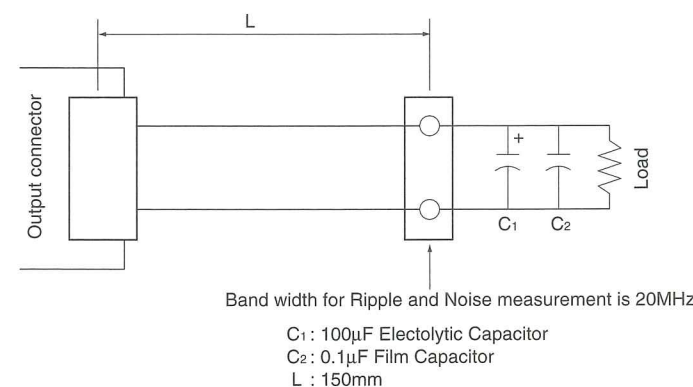


• Installation of Cover Equipped Power Supplies:

- 1) In general, do not install using only surface A.
- 2) In the case of temporary installation using only surface A, install in such a way that surface B does not oscillate in the direction indicated by the arrow in the illustration at left.
- 3) Installation using surface B only does not present any problems.



• Ripple Noise Measurement Conditions:



Other:

1. Unless indicated otherwise in the specifications or safety requirements, the rated input and output is for use in a 25°C ambient temperature.

• Other Basic Technical Data:

Items	10W	15W	50W	100W	150W
Rated Input/Output Vac	100-240	100-240	100-120/200-240	100-120/200-240	100-120/200-240
Input Range Vac	85 to 265	85 to 265	85 to 132/170 to 265	85 to 132/170 to 265	85 to 132/170 to 265
Wide Input/Automatic Input Selection	Wide	Wide	Autoselect	Autoselect	Autoselect
DC input	○	○	×	×	×
Operating Frequency kHz	115	115	130	135	140
PWB Material*1	CEM3	CEM3	CEM3	CEM3	CEM3
Maximun Capacitive Load (μF)*1	5,000	5,000(12V) 2,000(24V)	10,000	30,000	30,000 2,000(48V output)

*1 CEM3 is a glass composite material.

• CE Marking

These products conform to EN60950 based on the requirements of 73/23/EEC and 93/68/EEC. As a general rule, the CE Mark is not applied to special order "Variation" versions of these power supplies, i.e., power supplies which have been reworked or changed in some way at customer request. (However, depending on the kind of changes that have been made, if Variation power supplies are found to be applicable for having the CE Mark attached to them, this will be indicated in the Product Specifications for that model).

• Option

Optional input, output cable kits are available at a separate price.

Detailed Listing:

10W	Model	4EU20G054
	Input :	4EU00G056
15W	Model	4EU20G054
	Input :	4EU00G056
50W	Model	4EU20G057
	Input :	4EU00G056
100W	Model	4EU20G056
	Input :	4EU00G056
150W	Model	4EU00G062
	Input :	4EU00G056
	Output :	4EU50B299(+ side)
	Output :	4EU40B299(- side)

*Specify the model name when ordering.

• Series Operation (Increase Output Voltage or Obtain Separate ±Output)

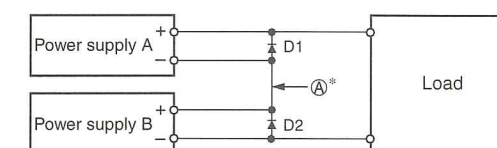
When the output voltage of one power supply is insufficient, several power supplies can be connected in series in order to obtain a higher voltage or separate ±outputs. In the illustration below, power supplies A and B are 5V each, a 10V output can be obtained by connecting them in series. However, the output current is limited to the lowest rated current value of A and B, Whichever is the lowest. There is no problem if the voltage of A and B are different. The purpose of diodes D1 and D2 are to prevent reverse voltage application.

They prevent internal component damage to the power supply having the lowest rated voltage when reverse voltage occurs as a result of a short in the load, etc.

Use diodes which meet the following requirements:

- Reverse Withstanding Voltage Rating: Over twice that of the combined output voltage.
- Forward Current: Over twice that of the output current.
- Forward Voltage Drop: As small as possible (e.g. shottkey diode, etc.).

Series Connection for Increasing Output Voltage



*For obtaining separate ±outputs, (A) should be Zero voltage.