

10 to 60W Single Output, High Reliability Power Supplies

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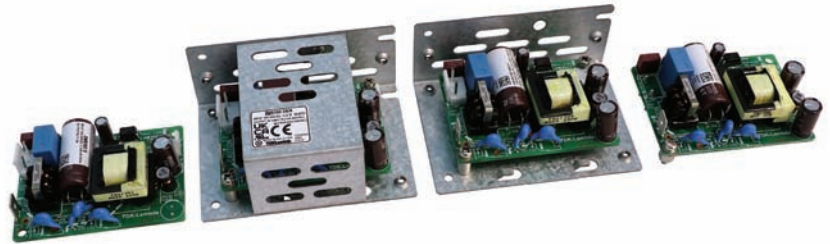


Industrial

Test

COMM

Broadcast



The ZWS-C industrial grade power supplies are used in a wide range of applications where equipment down-time cannot be tolerated during years of operation. Globally, process control, machinery, semiconductor fabrication and test and measurement equipment manufacturers depend upon the ZWS series to provide a reliable source of power. Conservatively rated electrolytic capacitor temperatures offer improved field life-times of up to 15 years. Available in four power levels, 10W, 15W, 30W and 50W, the series provides a choice of 5V, 12V, 15V, 24V and 48V (50W only) outputs. These compact products meet class B conducted and radiated EMI in either a Class I or Class II (double insulated) construction, without the need for external filtering. In addition to a double sided board coating option, L bracket and cover configurations are available, or terminal pins for printed circuit board mounting.

Features

- Up to 15 Year Electrolytic Capacitor Lifetimes
- Curve B Radiated and Conducted EMI
- Enclosure, Board Coating and Connection Options
- Can be used in Class I and Class II installations
- 5 year Warranty

Benefits

- Improved Field Life
- Easier System Compliance
- Simplified Mounting and Installation
- Flexible Utilisation
- Low Cost of Ownership

Model Selector

Model	Output Voltage (V) (Fixed)	Maximum Current (A) (100 / 200Vac)	Maximum Output Power (W) (100 / 200Vac)	Load Regulation (mV)	Over Voltage Protection (V)	Efficiency (Typ) (%) (100 / 200Vac)
ZWS10C-5	5	2	10	40	>5.75	77 / 78
ZWS15C-5	5	3	15	40	>5.75	76 / 78
ZWS30C-5	5	4	20	120	>5.75	80 / 82
ZWS50C-5	5	6 / 7	30 / 35	120	>5.75	80 / 81
ZWS10C-12	12	0.9	10.8	96	>13.8	82 / 83
ZWS15C-12	12	1.3 / 1.7	15.6 / 20.4	96	>13.8	80 / 83
ZWS30C-12	12	2.5 / 2.92	30 / 35	120	>13.8	84 / 86
ZWS50C-12	12	4.3 / 5	51.6 / 60	288	>13.8	83 / 86
ZWS10C-15	15	0.7	10.5	120	>17.25	83 / 84
ZWS15C-15	15	1.0 / 1.35	15 / 20.3	120	>17.25	81 / 84
ZWS30C-15	15	2.0 / 2.33	30 / 35	120	>17.25	85 / 87
ZWS50C-15	15	3.5 / 4	52.5 / 60	150	>17.25	84 / 87
ZWS10C-24	24	0.5	12	151	>26.88	84 / 85
ZWS15C-24	24	0.7 / 0.85	16.8 / 20.4	151	>26.88	82 / 85
ZWS30C-24	24	1.25 / 1.46	30 / 35	192	>27.6	86 / 88
ZWS50C-24	24	2.1 / 2.5	50.4 / 60	192	>27.6	85 / 87
ZWS50C-48	48	1.1 / 1.25	52.8 / 60	384	>55.2	86 / 88

ZWS	50	C	-	5	/A												
Nominal power: 10, 15, 30, 50		Output voltage: 5, 12, 15, 24, 48															
					<table><tr><th>Suffix</th><th>Description</th></tr><tr><td>Blank</td><td>Open frame</td></tr><tr><td>/A</td><td>L-bracket & cover</td></tr><tr><td>/L</td><td>L-bracket</td></tr><tr><td>/P</td><td>Open frame, Pcb mount</td></tr><tr><td>/CO2</td><td>Double sided Pcb coating</td></tr></table>	Suffix	Description	Blank	Open frame	/A	L-bracket & cover	/L	L-bracket	/P	Open frame, Pcb mount	/CO2	Double sided Pcb coating
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Specifications

Model		ZWS10C	ZWS15C	ZWS30C	ZWS50C
Input					
Input Voltage Range (Operating) ⁽¹⁾	Vac	85 - 265			
Nominal Input Voltage Range	Vac	100 - 240 (Note: Safety certified for 90-264Vac only)			
Input Frequency	Hz	47 - 63 (Note: Safety certified for 50-60Hz only)			
Input Current (100 / 200Vac)	A	0.25 / 0.13	5V: 0.34 / 0.17 12-24V: 0.34 / 0.24	5V: 0.60 / 0.35 12-24V: 0.70 / 0.50	5V: 1.1 / 0.7 12-48V: 1.2 / 1.0
Inrush Current 100 / 200Vac (typ) (Cold Start)	A	30 / 60			
Leakage Current (230Vac 60Hz)	mA	<0.30 (230Vac 60Hz)			
No Load Power Consumption	W	ZWS10C: 0.1 to 0.2, ZWS15C: 0.1, ZWS30C: 0.1 to 0.2, ZWS50C: 0.2 to 0.5W. See Evaluation data on website ⁽²⁾			
Hold Up Time (typ) at 100Vac, 100% load	ms	20 at 100Vac, 80% Load			
Efficiency	-	See Model Selector Table			
Conducted & Radiated EMI	-	EN55011 / EN55032-B, FCC-B, VCCI-B			
Immunity	-	IEC61000-6-2, EN61000-4-2, -3, -4, -5, -6, -8, -11 (See immunity table)			
Insulation Class	-	Certified for Class I or Class II installations			
Safety Certifications and Markings	-	IEC/UL/CSA/EN62368-1, EN60335-1, IEC/EN61558-1, IEC/EN61558-2-16, CE Mark and UKCA Mark			

Immunity

Test	Standard	Test Level	Criteria	Notes
ESD	EN61000-4-2	Air ± 8kV and contact ± 4kV	B	See IEC61000 immunity test report on website
Radiated Susceptibility	EN61000-4-3	80M -1GHz: 10V/m 1.4 - 2.0GHz: 3V/m 2.0 - 2.7GHz: 1V/m	A	
Electrical Fast Transient Burst	EN61000-4-4	± 2kV	B	
Surge	EN61000-4-5	Normal ± 2kV Common ± 4kV	B	
Conducted Susceptibility	EN61000-4-6	10Vrms	A	
Magnetic Fields	EN61000-4-8	30A/m	A	
Voltage Dips	EN61000-4-11	30% 500ms	A	
		60% 200ms	A/B	
		100% 20ms	A	
		100% 5000ms	B	

Specifications					
Model		ZWS10C	ZWS15C	ZWS30C	ZWS50C
Output					
Output Voltage Adjustment	-	Fixed			
Switching Frequency	kHz	100			
Line Regulation	mV	5V: 20, 12V: 48, 15V: 60, 24V: 96, 48V: 192			
Load Regulation	-	See Model Selector Table			
External Load Capacitance	uF	ZWS10C; 5V: 10,000, 12V: 2,000, 15V:1,400, 24V: 300			
		ZWS15C; 5V: 10,000, 12V: 2,500, 15V:1,000, 24V: 500			
		ZWS30C; 5V: 10,000, 12V: 2,700, 15V:1,500, 24V: 600			
		ZWS50C; 5V: 6,000, 12V: 5,000, 15V:4,000, 24V: 2,500, 48V: 560			
Ripple & Noise	mV	5V: 120, 12-24V: 150, 48V: 200			
Temperature Coefficient	%/°C	<0.02			
Minimum Load	-	No minimum load required			
Overcurrent Protection	%	>1.05			
Overvoltage Protection	V	See Model Selector Table. ZWS10C and ZWS15C Zener clamp. ZWS30C and ZWS50C cycle AC to reset			
Remote Sense	-	-			
Remote On/Off	-	-			
Parallel Operation	-	Not possible			
Environmental					
Operating Temperature ⁽²⁾ (Convection Cooling, Horizontal Mounting)	°C	-10 to +70, derate from 100% to 50% load from 50 to 70 (ZWS10-C from 55 to 70)			
Storage Temperature	°C	-30 to +75			
Humidity (non condensing)	%RH	30 - 90 operating, 10 - 95 storage			
Pollution Degree	-	PD2			
Cooling	-	Convection. (Forced air will reduce derating at high ambient temperatures, see specifications on website) ²			
Altitude	m	4,000 (2,000 for IEC/EN61558-1, IEC/EN61558-2-16)			
Withstand Voltage (For 1 minute)	Vac	Input to Ground 2,000, Input to Output 3,000, Output to Ground 750			
Isolation Resistance	MΩ	>100 at 25°C, 70%RH & 500Vdc			
Vibration (Non operating)	-	10-55Hz (Sweep for 1min.) 19.6m/s ² Constant X,Y,Z 1 hour each			
Shock (Non operating)	-	Less than 196m/s ²			
Other					
Weight (Typ) (Open frame models)	g	40	47	65	105
Size (LxWxH) (Open frame models)	mm	63.5 x 45.7 x 22.1	63.5 x 45.7 x 22.1	76.2 x 50.8 x 24.2	76.2 x 50.8 x 26.7
Size (LxWxH) (Open frame models)	Inches	2.5 x 1.8 x 0.87	2.5 x 1.8 x 0.87	3 x 2 x 0.95	3 x 2 x 1.05
Connectors	-	Input: JST B2P3-VH, Output: ZWS10-30: B2P-VH, ZWS50: B4P-VH			
MTBF - JEITA RCR-9102B(3)	Hours	389,511	379,236	371,311	366,537
Warranty	Years	5			

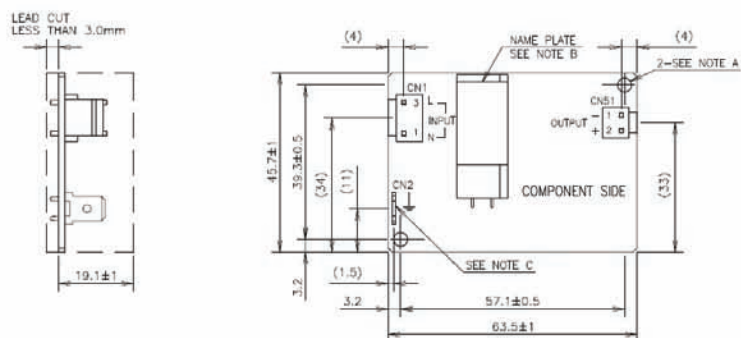
Notes:

(1) ZWS50C-12, -15, -24, -48: Derate linearly to 90% load from 90 to 85Vac input

(2) [See Instruction manual for further details](#)

(3) Component count method, ground fixed. Note the JEITA RCR-9102B calculation method produces figures significantly lower than Telcordia

Outline Drawing ZWS10C (Open Frame)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

MATCHING PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-160R	J.S.T.	-

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
TERMINAL PINS	SVH-41T-P1.1	J.S.T.	4
	BVH-41T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-

NOTES

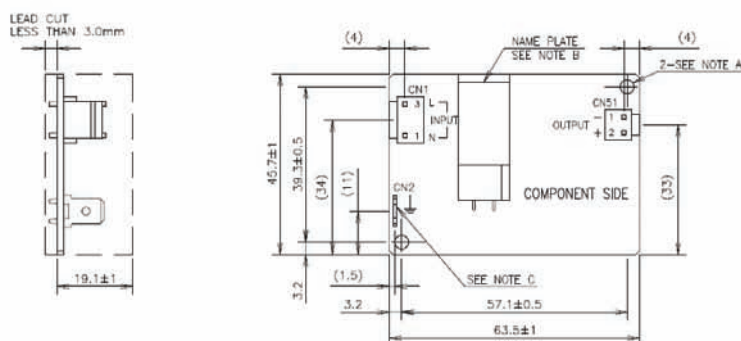
A: 2- ϕ 3.5 HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.

B: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.

C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.

Outline Drawing ZWS15C (Open Frame)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

MATCHING PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-160R	J.S.T.	-

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
TERMINAL PINS	SVH-41T-P1.1	J.S.T.	4
	BVH-41T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-

NOTES

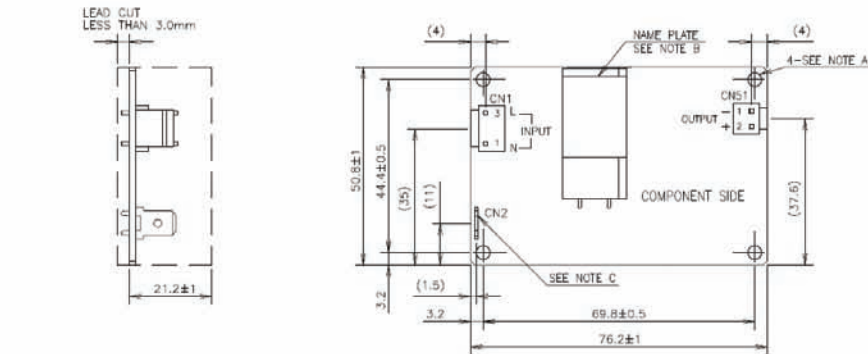
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C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.

Outline Drawing ZWS30C (Open Frame)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
HOUSING(CN2)	22~18AWG: STO-21T-250N 18~14AWG: STO-61T-250N	J.S.T.	1

MATCHING PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	VC-160R	J.S.T.	-

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
TERMINAL PINS	SVH-41T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	VC-930R VC-931R	J.S.T.	-

NOTES

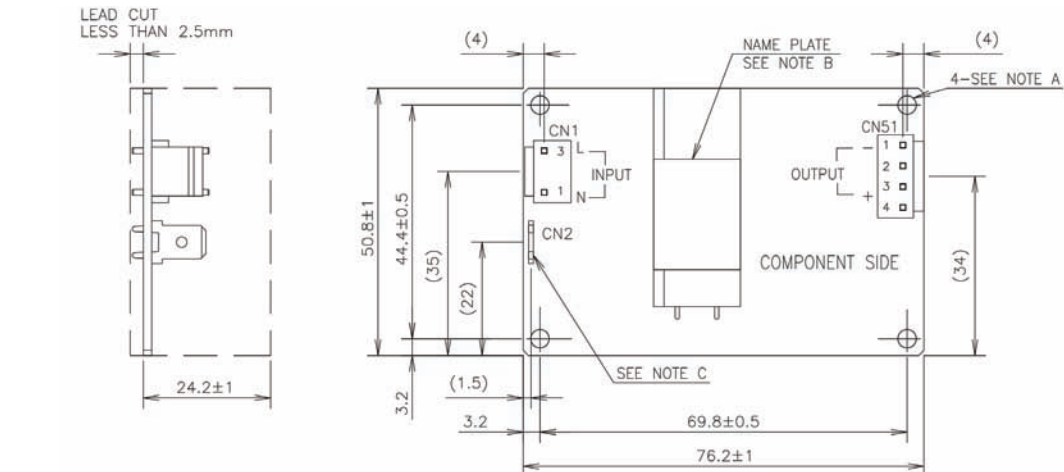
A: 4- ϕ 3.5 HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.

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C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.

Outline Drawing ZWS50C (Open Frame)



NOTES

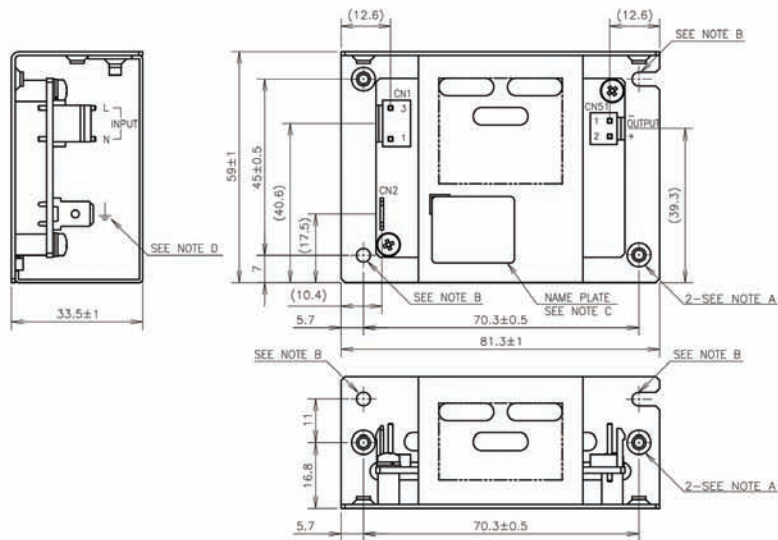
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C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.

Outline Drawing ZWS10C-xx/A (L-bracket & cover)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

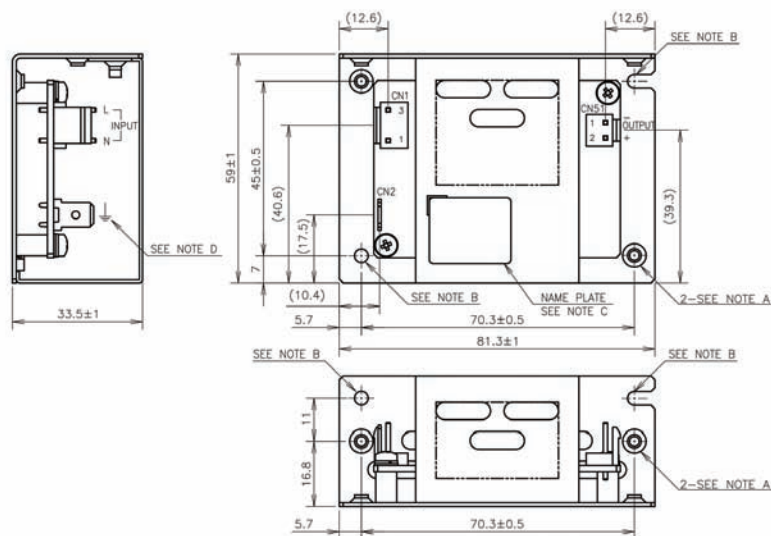
A: M3 EMBOSSED TAPPED & COUNTERSINK HOLES (4) ARE FOR CUSTOMER'S CHASSIS MOUNTING.

B: $\phi 3.5$ HOLES (2) AND R1.75 SLOT HOLES (2) ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES.

C: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.

D: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

Outline Drawing ZWS15C-xx/A (L-bracket & cover)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

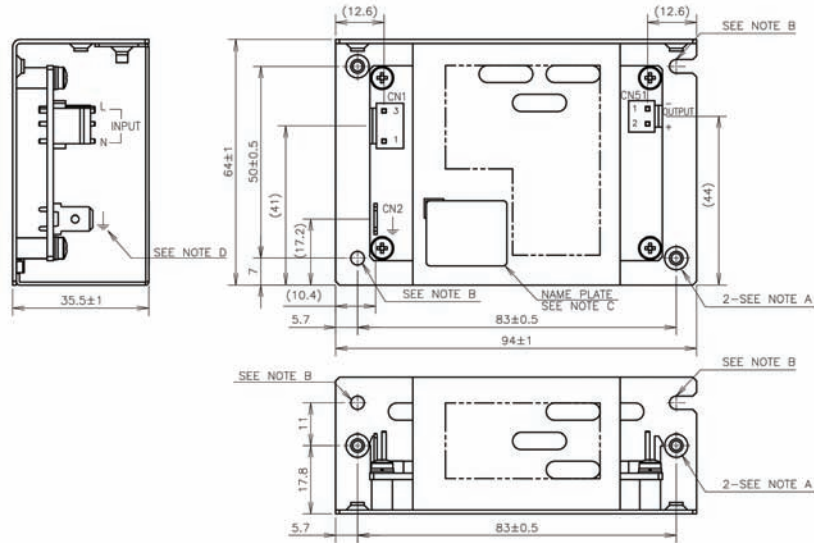
A: M3 EMBOSSED TAPPED & COUNTERSINK HOLES (4) ARE FOR CUSTOMER'S CHASSIS MOUNTING.

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D: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

Outline Drawing ZWS30C-xx/A (L-bracket & cover)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	1
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING (CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

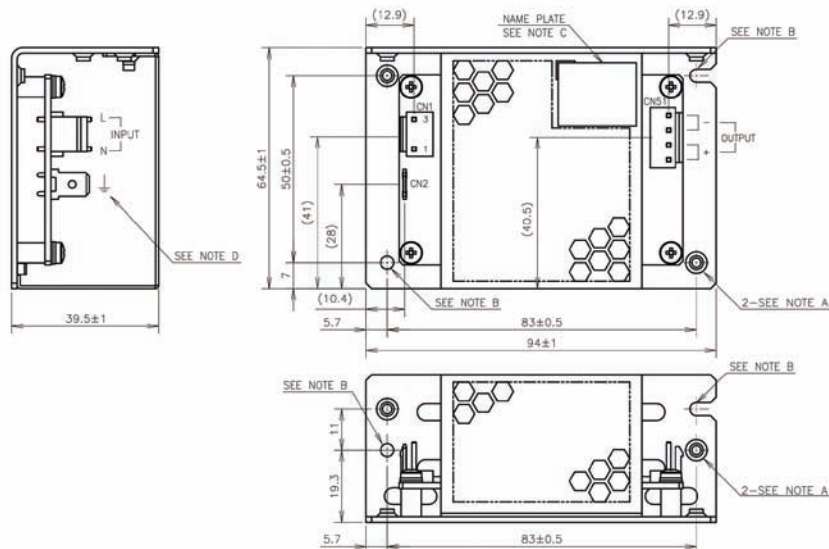
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B: Ø3.5 HOLES (2) AND R1.75 SLOT HOLES (2) ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES.

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D: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

Outline Drawing ZWS50C-xx/A (L-bracket & cover)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	6
	BVH-21T-P1.1	J.S.T.	1
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING (CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

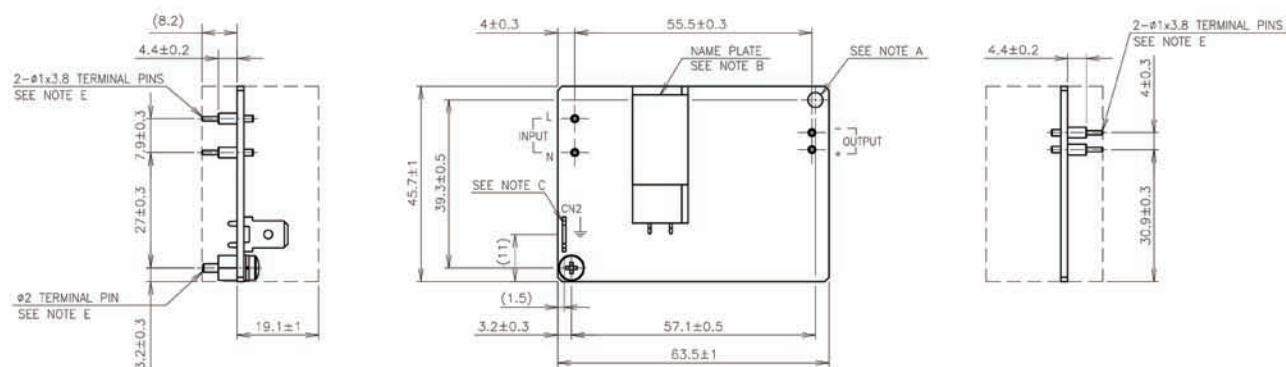
A: M3 EMBOSSED TAPPED & COUNTERSINK HOLES (4) ARE FOR CUSTOMER'S CHASSIS MOUNTING.

B: Ø3.5 HOLES (2) AND R1.75 SLOT HOLES (2) ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES.

C: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.

D: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

Outline Drawing ZWS10C-xx/P (Open frame, Pcb mount)



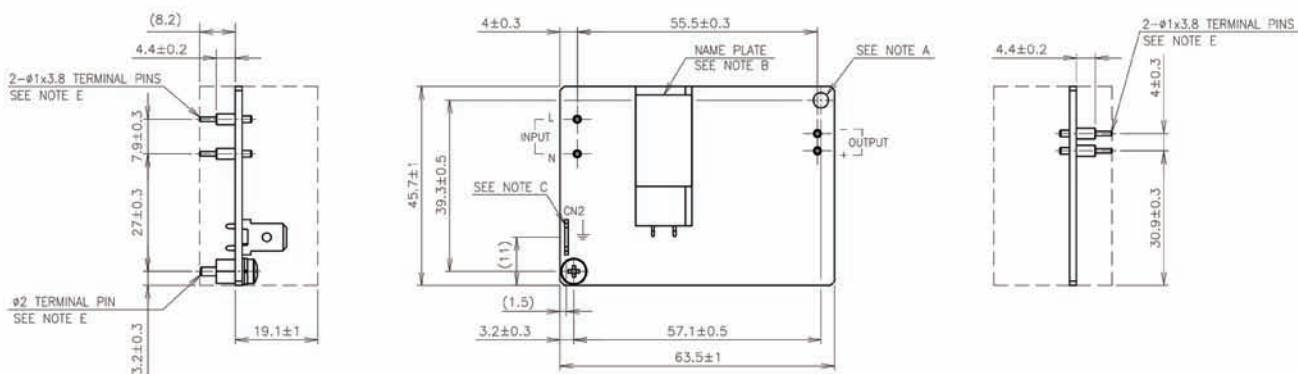
MATCHING HOUSINGS :

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
HOUSING(CN2)	22~18AWG: STO-21T-250N 18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: $\phi 3.5$ HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.
- B: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.
- D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.
- E: TERMINAL PIN MATERIAL : HBI59-1, Sn PLATED.
- F: DO NOT APPLY FORCE TO COMPONENTS WHILE MOUNTING POWER SUPPLY UNIT.
- G: DO NOT APPLY FORCE TO COMPONENTS WHILE CARRYING POWER SUPPLY UNIT.

Outline Drawing ZWS15C-xx/P (Open frame, Pcb mount)



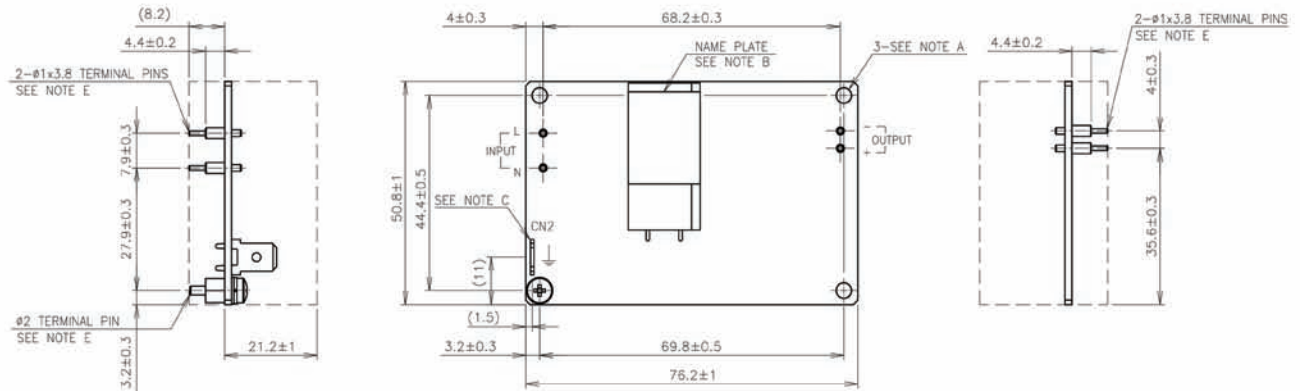
MATCHING HOUSINGS :

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
HOUSING(CN2)	22~18AWG: STO-21T-250N 18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: $\phi 3.5$ HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.
- B: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.
- D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.
- E: TERMINAL PIN MATERIAL : HBI59-1, Sn PLATED.
- F: DO NOT APPLY FORCE TO COMPONENTS WHILE MOUNTING POWER SUPPLY UNIT.
- G: DO NOT APPLY FORCE TO COMPONENTS WHILE CARRYING POWER SUPPLY UNIT.

Outline Drawing ZWS30C-xx/P (Open frame, Pcb mount)



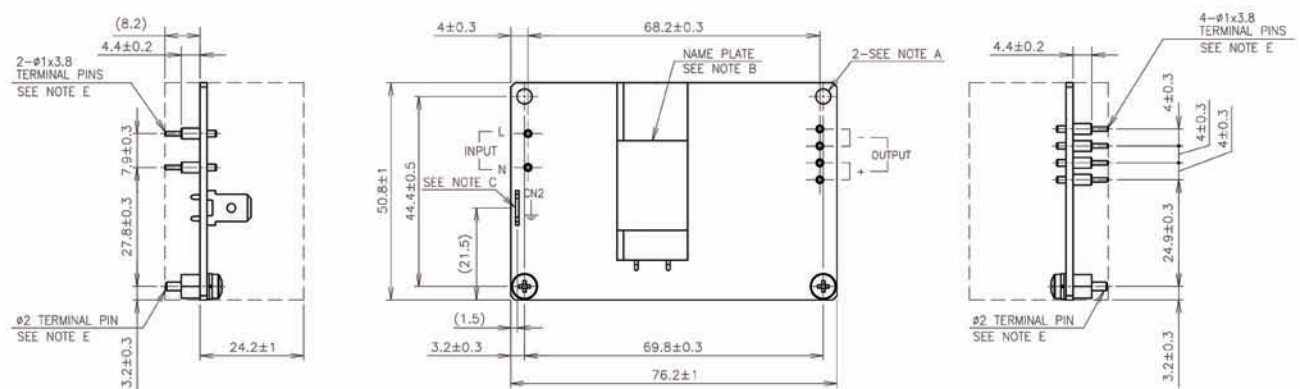
MATCHING HOUSINGS :

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: 3-ø3.5 HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.
- B: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.
- D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.
- E: TERMINAL PIN MATERIAL : HBI59-1, Sn PLATED.
- F: DO NOT APPLY FORCE TO COMPONENTS WHILE MOUNTING POWER SUPPLY UNIT.
- G: DO NOT APPLY FORCE TO COMPONENTS WHILE CARRYING POWER SUPPLY UNIT.

Outline Drawing ZWS50C-xx/P (Open frame, Pcb mount)



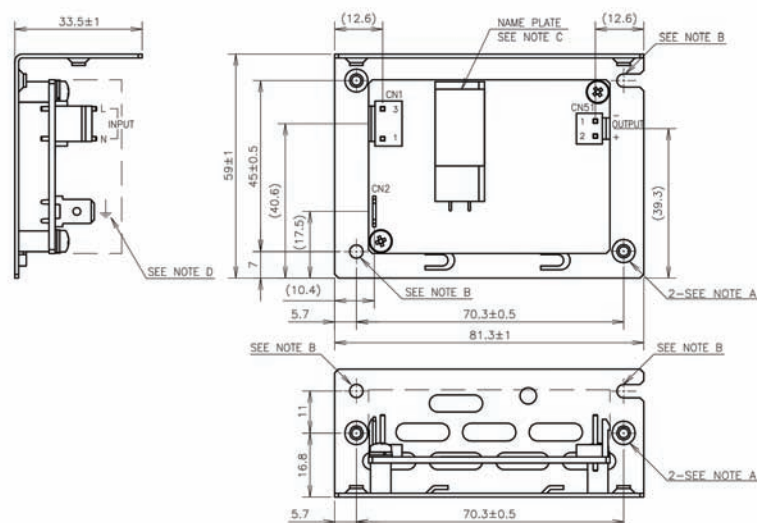
MATCHING HOUSINGS :

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: 2-ø3.5 HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.
- B: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- C: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.
- D: TO KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.
- E: TERMINAL PIN MATERIAL : HBI59-1, Sn PLATED.
- F: DO NOT APPLY FORCE TO COMPONENTS WHILE MOUNTING POWER SUPPLY UNIT.
- G: DO NOT APPLY FORCE TO COMPONENTS WHILE CARRYING POWER SUPPLY UNIT.

Outline Drawing ZWS10C-xx/L (L-bracket)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

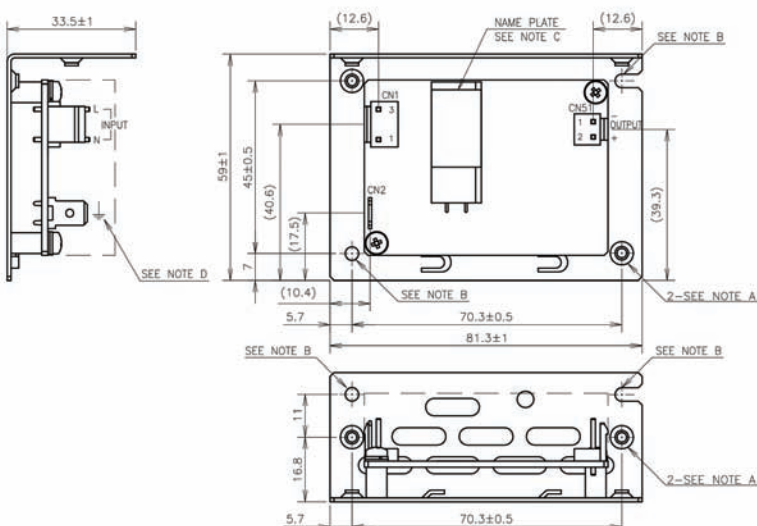
MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: M3 EMBOSSED TAPPED & COUNTERSINK HOLES (4) ARE FOR CUSTOMER'S CHASSIS MOUNTING.
- B: $\phi 3.5$ HOLES (2) AND R1.75 SLOT HOLES (2) ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES.
- C: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND SAFETY MARKING (FOR ONLY APPROVED PRODUCTS) ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- D: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

Outline Drawing ZWS15C-xx/L (L-bracket)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

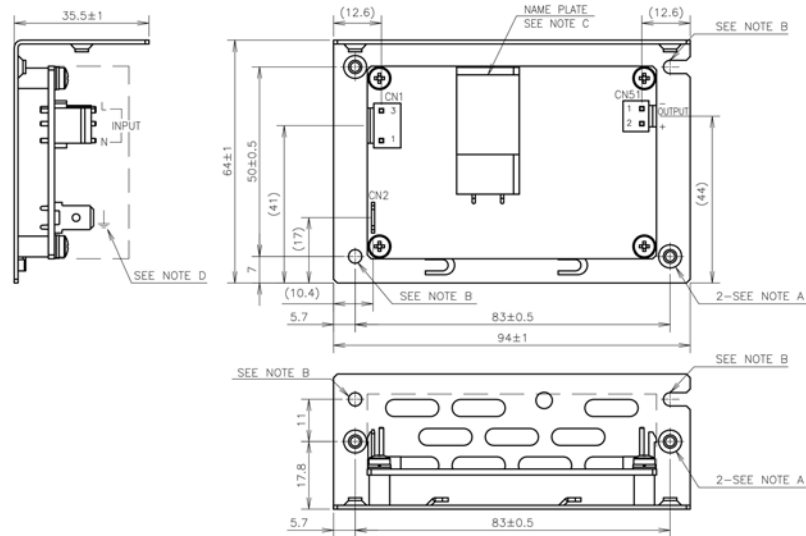
MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING(CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: M3 EMBOSSED TAPPED & COUNTERSINK HOLES (4) ARE FOR CUSTOMER'S CHASSIS MOUNTING.
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- D: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

Outline Drawing ZWS30C-xx/L (L-bracket)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

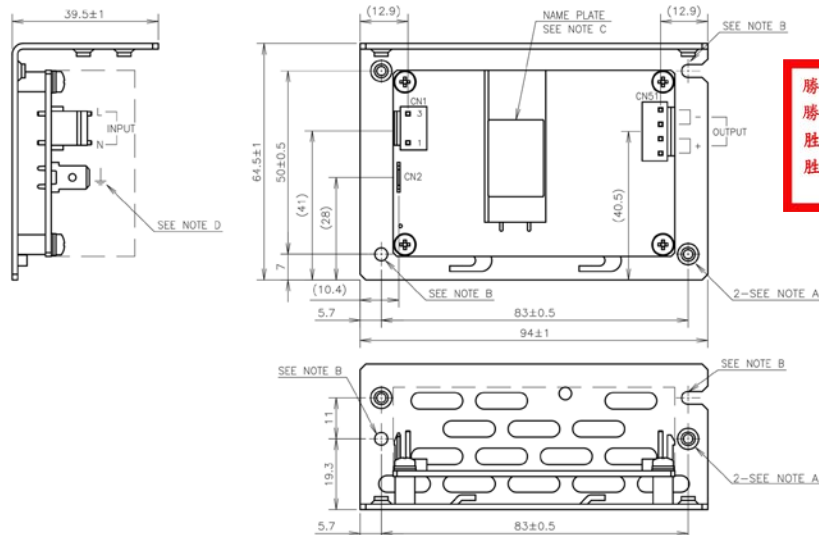
MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	4
	BVH-21T-P1.1	J.S.T.	4
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING (CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: M3 EMBOSSED TAPPED & COUNTERSINK HOLES (4) ARE FOR CUSTOMER'S CHASSIS MOUNTING.
- B: Ø3.5 HOLES (2) AND R1.75 SLOT HOLES (2) ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES.
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- D: CN2 IS FOR SAFETY GROUND (FG) CONNECTION IN CLASS I.

Outline Drawing ZWS50C-xx/L (L-bracket)



CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B2P3-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B2P-VH	J.S.T.	1

MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VAR-2/VHR-3N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-2N	J.S.T.	1
TERMINAL PINS	SVH-21T-P1.1	J.S.T.	6
	BVH-21T-P1.1	J.S.T.	6
HAND CRIMPING TOOL	YC-930R	J.S.T.	-
	YC-931R	J.S.T.	-
HOUSING (CN2)	22~18AWG: STO-21T-250N	J.S.T.	1
	18~14AWG: STO-61T-250N	J.S.T.	1

NOTES

- A: M3 EMBOSSED TAPPED & COUNTERSINK HOLES (4) ARE FOR CUSTOMER'S CHASSIS MOUNTING.
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