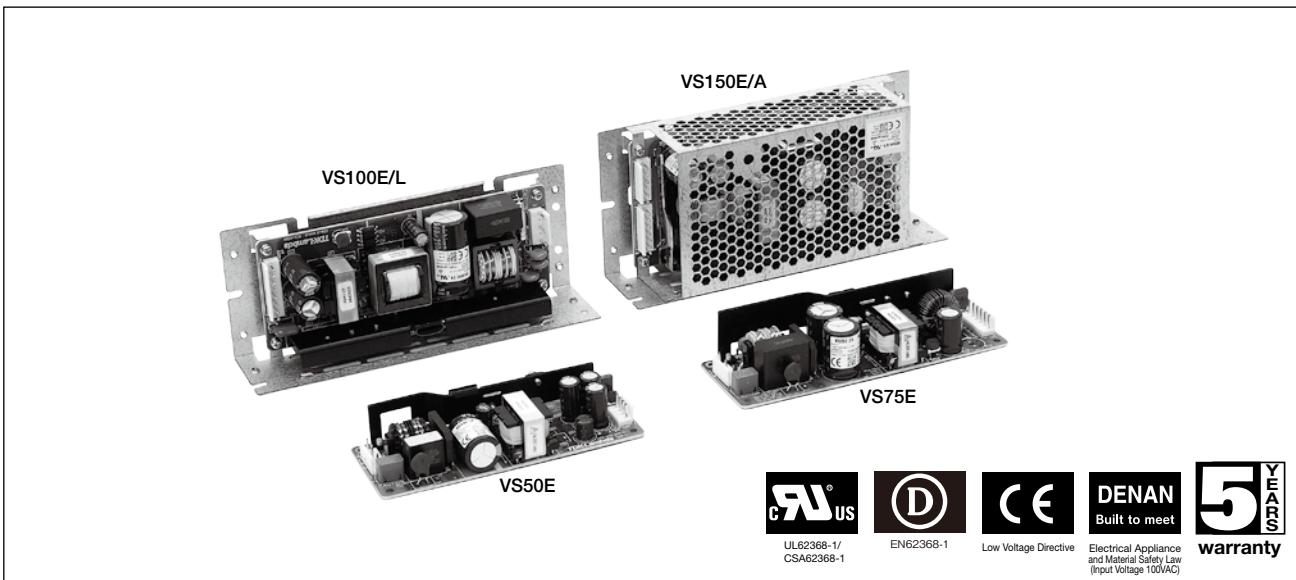


VS-E SERIES

Single Output 50 - 150W



■ Features

- High efficiency and low standby power.
- 30% Miniaturization from previous models.
- 100% load at 50°C, suitable for industrial equipment.
- 5 Years warranty (conditions applied)

■ Applications



■ Model name identification method

VS 50E - 5 / □

Blank : PCB Type
A : With cover
L : L plate type

Rated Output Voltage
Rated Output Power
Series Name

■ Conformity to RoHS Directive

■ Product line up

Model	VS50E 50W		VS75E 75W		VS100E 100W		VS150E 150W	
	Output Current	Efficiency(Typ)						
3.3V	10A	80%	15A	80%	20A	80%	30A	80%
5V	10A	85%	15A	85%	20A	85%	30A	86%
12V	4.3A	85%	6.3A	85%	8.5A	85%	12.5A	87%
15V	3.5A	85%	5.0A	85%	7.0A	85%	10.0A	87%
24V	2.5A	85%	3.2A	86%	4.3A	86%	6.3A	87%
48V	1.3A	87%	1.6A	87%	2.2A	87%	3.2A	88%

■ Option line up

Model	VS50E 50W				VS75E 75W				VS100E 100W				VS150E 150W			
	/A	/L	/CO2	/FV	/A	/L	/CO2	/FV	/A	/L	/CO2	/FV	/A	/L	/CO2	/FV
3.3V	○	○	○	-	○	○	○	-	○	○	○	-	○	○	○	-
5V	○	○	○	-	○	○	○	-	○	○	○	-	○	○	○	-
12V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
15V	○	○	○	-	○	○	○	-	○	○	○	-	○	○	○	-
24V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
48V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

VS50E Specifications

ITEMS/UNITS		MODEL		VS50E-3	VS50E-5	VS50E-12	VS50E-15	VS50E-24	VS50E-48		
Input	Voltage Range (*2)	V			AC 85 - 132						
	Frequency (*2)	Hz			47 - 63						
	Efficiency (Typ) (*1)	%	80			85	87				
	Current (Typ) (*1)	A	0.9			1.1	1.3				
	Inrush Current (Typ) (*1)(*11)	A			30 at Cold Start						
	Leakage Current (*8)	mA			Less than 0.5						
Output	Nominal Voltage	VDC	3.3	5	12	15	24	48			
	Maximum Current	A	10		4.3	3.5	2.5	1.3			
	Maximum Power	W	33.0	50.0	51.6	52.5	60.0	62.4			
	Maximum Line Regulation (*3)(*4)	mV	20		48	60	96	192			
	Maximum Load Regulation (*3)(*5)	mV	40		96	120	150	240			
	Temperature Coefficient (*3)				Less than 0.02% / °C						
	Maximum Ripple & Noise(0≤Ta≤70°C) (*3)	mVp-p	120		150		200				
	Maximum Ripple & Noise(-10≤Ta<0°C) (*3)	mVp-p	160		180		240				
Function	Hold-up Time (Typ) (*1)	ms			20						
	Voltage Adjustable Range (*12)	VDC	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5	21.6 - 26.4	43.2 - 52.8			
	Over Current Protection (*6)	A	10.5 -		4.51 -	3.67 -	2.62 -	1.36 -			
Environment	Over Voltage Protection (*7)	VDC	3.80 - 4.46	5.75 - 6.75	13.8 - 16.2	17.3 - 20.3	27.6 - 32.4	55.2 - 64.8			
	Parallel Operation				-						
	Series Operation				Possible						
	Operating Temperature (*9)	°C			Convection : -10 - +70 (-10 - +50:100%, +60:70%, +70:20%)						
Isolation	Storage Temperature	°C			-30 - +85						
	Operating Humidity	%RH			30 - 90 (No dewdrop)						
	Storage Humidity	%RH			10 - 95 (No dewdrop)						
	Vibration				At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s² Constant, X,Y,Z 1hour each.						
	Shock				Less than 196.1m/s²						
	Cooling				Convection Cooling						
	Withstand Voltage				Input - FG : 2kVAC (10mA), Input - Output : 2kVAC (10mA) Output - FG : 500VAC (20mA) for 1min						
Standards	Isolation Resistance				More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC						
	Safety Standards				Approved by UL62368-1, CSA62368-1, EN62368-1, EN50178(OV II), UL60950-1, CSA60950-1, EN60950-1. (Expire date of 60950-1: 20/12/2020) Designed to meet Den-an Appendix 12 (J60950-1).						
	EMI				Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B						
Mechanical	Immunity				Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3), -5(Level 2,3), -6(Level 3), -8(Level 4), -11						
	Weight (Typ)	g			150						
	Size (WxHxD) (*10)	mm			50 x 23 x 132 (Refer to Outline Drawing)						

*Read instruction manual carefully, before using the power supply unit.

(*1) At 100VAC, Ta=25°C, nominal output voltage and maximum output power.

(*2) For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 120VAC(50/60Hz).

(*3) Please refer to Fig. A for measurement of line & load regulation and ripple voltage.

(*4) 85 - 132VAC, constant load.

(*5) No load-Full load, constant input voltage.

(*6) Fold back current limit with automatic recovery. Avoid to operate at over load or short circuit condition for more than 30seconds.

(*7) OVP circuit will shut the output down, manual reset (Re power on).

(*8) Measured by the each measuring method of UL, CSA, EN and DENAN(at 60Hz), Ta=25°C.

(*9) Ratings - Derating at standard mounting. Refer to output derating curve(A239-01-02_).

- Load (%) is percent of maximum output power or maximum output current, whichever is greater.

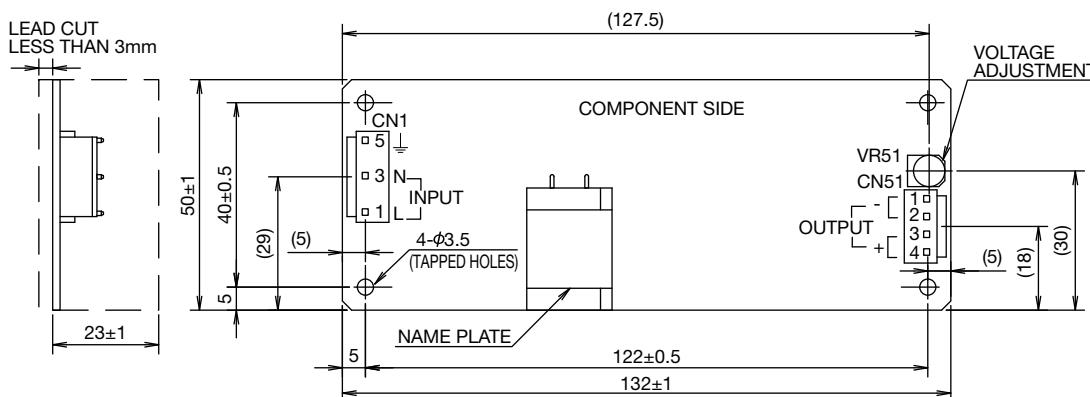
(*10) Not include lead length on solder side.

(*11) Inrush Current suppressors type. Limits vary according to ambient temperature and in case of re-entry.

(*12) /FV option is for fixed output voltage.

Outline Drawing

VS50E Standard Specification, /CO2, /FV



CONNECTOR USED

PART DESCRIPTION	PART NAME	MANUFACT	QTY
PIN HEADER (INPUT SIDE CN1)	B3P5-VH(LF)(SN)	J.S.T.	1
PIN HEADER(OUTPUT SIDE CN51)	B4P-VH(LF)(SN)	J.S.T.	1

* OUTPUT CURRENT OF EACH CONNECTOR PIN MUST BE LESS THAN 5A.

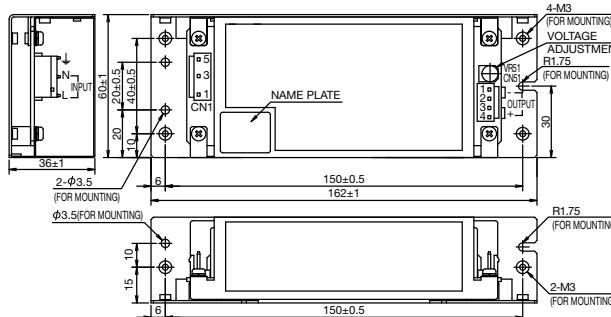
MATCHING HOUSINGS & PIN.(NOT INCLUDED WITH THE PRODUCT.)

PART DESCRIPTION	PART NAME	MANUFACT	QTY
SOCKET HOUSING (CN1)	VHR-5N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-4N	J.S.T.	1
Terminal pin	SVH-21T-P1.1 BVH-21T-P1.1	J.S.T.	7
HAND CRIMPING TOOL	YC-160R	J.S.T.	-

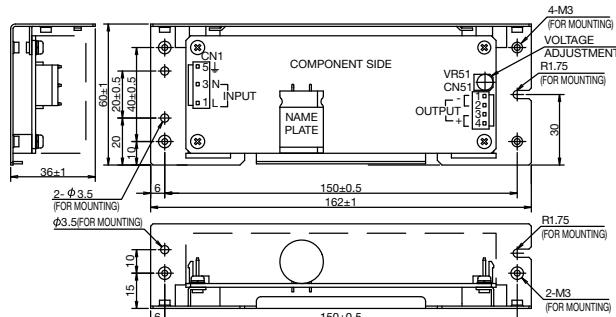
OPEN HARNESS

	PART NAME
INPUT	HA-2-IN
OUTPUT	HA-3-OU

VS50E/A

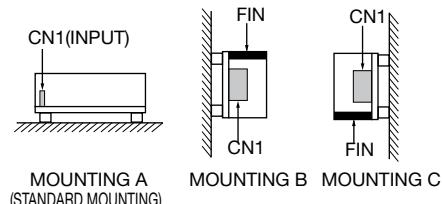
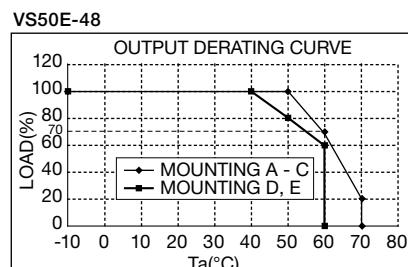
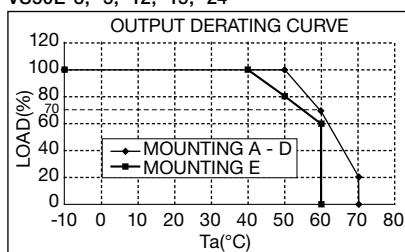


VS50E/L

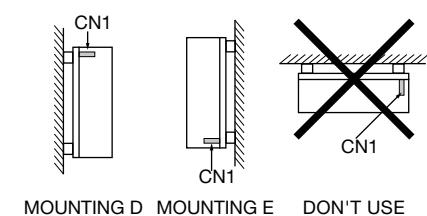
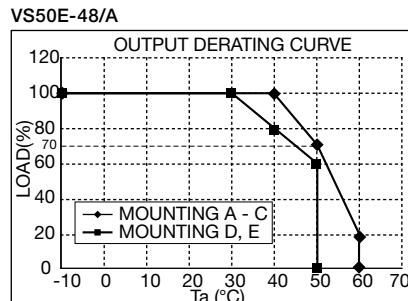
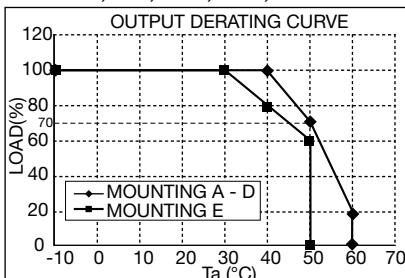


Output Derating

VS50E Standard Specification, /CO2, /FV, /L
VS50E-3, -5, -12, -15, -24



VS50E/A
VS50E-3/A, -5/A, -12/A, -15/A, -24/A



VS75E Specifications

ITEMS/UNITS		MODEL		VS75E-3	VS75E-5	VS75E-12	VS75E-15	VS75E-24	VS75E-48			
Input	Voltage Range	(*)2)	V			AC 85 - 132						
	Frequency	(*)2)	Hz			47 - 63						
	Efficiency (Typ)	(*)1)	%	80	85		86	87				
	Current (Typ)	(*)1)	A	1.1	1.6							
	Inrush Current (Typ)	(*)1)(*)12)	A			30A at Cold Start						
	Leakage Current	(*)9)	mA			Less than 0.5						
Output	Nominal Voltage	VDC	3.3	5	12	15	24	48				
	Maximum Current	A	15		6.3	5.0	3.2	1.6				
	Maximum Power	W	49.5	75.0	75.6	75.0	76.8					
	Maximum Line Regulation	(*)3)(*)5)	mV	20		48	60	96	192			
	Maximum Load Regulation	(*)3)(*)6)	mV	40		96	120	150	240			
	Temperature Coefficient	(*)3)			Less than 0.02% / °C							
	Maximum Ripple & Noise(0≤Ta≤70°C)	(*)3)(*)4)	mVp-p	120		150		200				
	Maximum Ripple & Noise(-10≤Ta<0°C)	(*)3)(*)4)	mVp-p	160		180		240				
Function	Hold-up Time (Typ)	(*)1)	ms			20						
	Voltage Adjustable Range	(*)13)	VDC	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5	21.6 - 26.4	43.2 - 52.8			
	Over Current Protection	(*)7)	A	15.7 -		6.61 -	5.25 -	3.36 -	1.68 -			
	Over Voltage Protection	(*)8)	VDC	3.80 - 4.46	5.75 - 6.75	13.8 - 16.2	17.3 - 20.3	27.6 - 32.4	55.2 - 64.8			
Environment	Parallel Operation					-						
	Series Operation					Possible						
	Operating Temperature	(*)10)	°C			Convection : -10 - +70 (-10 - +50:100%, +60:70%, +70:20%)						
	Storage Temperature	°C			-30 - +85							
	Operating Humidity	%RH			30 - 90 (No dewdrop)							
	Storage Humidity	%RH			10 - 95 (No dewdrop)							
	Vibration					At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s² Constant, X, Y, Z 1hour each.						
	Shock					Less than 196.1m/s²						
Isolation	Cooling					Convection Cooling						
	Withstand Voltage					Input - FG : 2kVAC (10mA), Input - Output : 2kVAC (10mA) Output - FG : 500VAC (20mA) for 1min						
	Isolation Resistance					More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC						
Standards	Safety Standards					Approved by UL62368-1, CSA62368-1, EN62368-1, EN50178(OV II), UL60950-1, CSA60950-1, EN60950-1. (Expire date of 60950-1: 20/12/2020) Designed to meet Den-an Appendix 12 (J60950-1).						
	EMI					Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B						
	Immunity					Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3), -5(Level 2,3), -6(Level 3), -8(Level 4), -11						
Mechanical	Weight (Typ)			g			200					
	Size (WxHxD)	(*)11)	mm			50 x 29 x 150 (Refer to Outline Drawing)						

*Read instruction manual carefully, before using the power supply unit.

(*)1) At 100VAC, Ta=25°C, nominal output voltage and maximum output power.

(*)2) For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 120VAC(50/60Hz).

(*)3) Please refer to Fig. A for measurement of line & load regulation and ripple voltage.

(*)4) For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification.

However, there is no overshoot at start up and output ripple noise specification can be met after one second.

(*)5) 85 - 132VAC, constant load.

(*)6) No load-Full load, constant input voltage.

(*)7) 3.3, 5V model : Constant current limit and hiccup with automatic recovery.

12 - 48V model : Constant current limit with automatic recovery.

Avoid to operate at over load or short circuit condition for more than 30seconds.

(*)8) OVP circuit will shut the output down, manual reset (Re power on).

(*)9) Measured by the each measuring method of UL, CSA, EN and DENAN (at 60Hz), Ta=25°C.

(*)10) Ratings

- Derating at standard mounting. Refer to output derating curve(A240-01-02_).

- Load (%) is percent of maximum output power or maximum output current, whichever is greater.

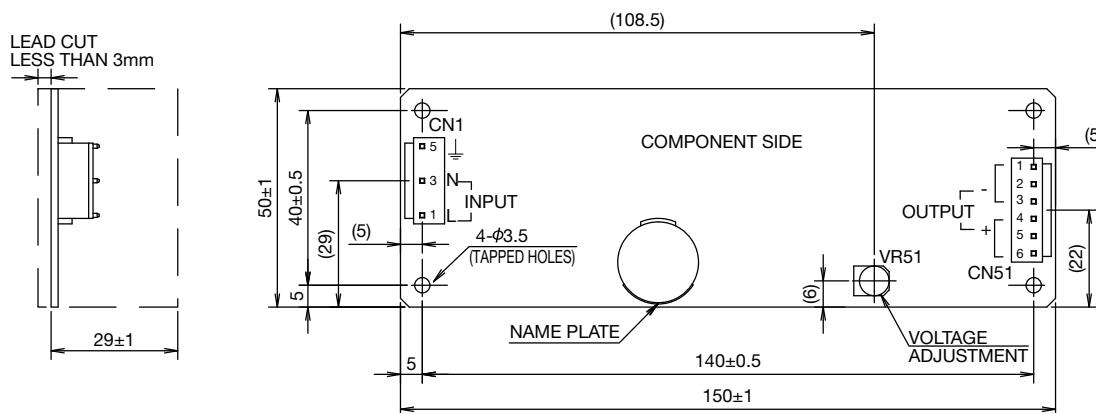
(*)11) Not include lead length on solder side.

(*)12) Inrush Current suppressors type. Limits vary according to ambient temperature and in case of re-entry.

(*)13) /FV option is for fixed output voltage.

Outline Drawing

VS75E Standard Specification, /CO2, /FV



CONNECTOR USED

PART DESCRIPTION	PART NAME	MANUFACT	QTY
PIN HEADER (INPUT SIDE CN1)	B3P5-VH(LF)(SN)	J.S.T.	1
PIN HEADER(OUTPUT SIDE CN51)	B6P-VH(LF)(SN)	J.S.T.	1

* OUTPUT CURRENT OF EACH CONNECTOR PIN MUST BE LESS THAN 5A.

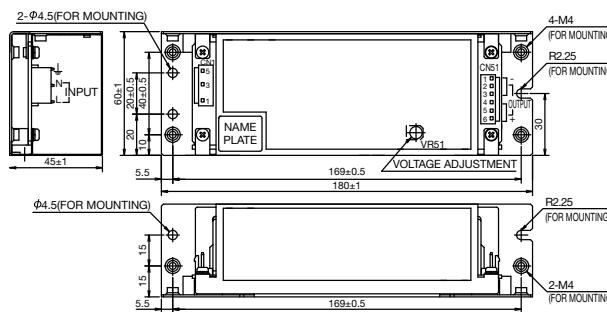
MATCHING HOUSINGS & PIN.(NOT INCLUDED WITH THE PRODUCT.)

PART DESCRIPTION	PART NAME	MANUFACT	QTY
SOCKET HOUSING (CN1)	VHR-5N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-6N	J.S.T.	1
Terminal pin	SVH-21T-P1.1 BVH-21T-P1.1	J.S.T.	9
HAND CRIMPING TOOL	YC-160R	J.S.T.	-

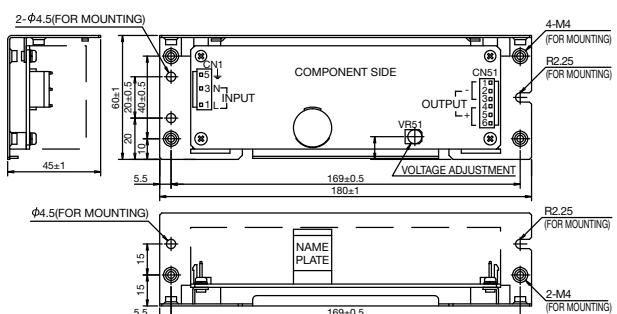
OPEN HARNESS

	PART NAME
INPUT	HA-2-IN
OUTPUT	HA-4-OU

VS75E/A

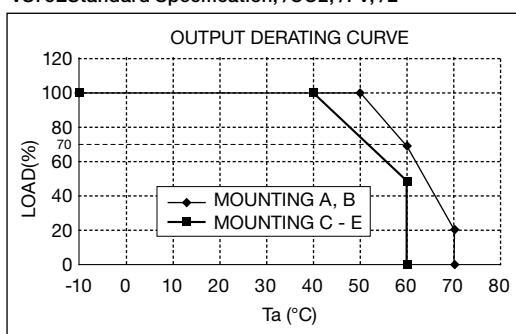


VS75E/L

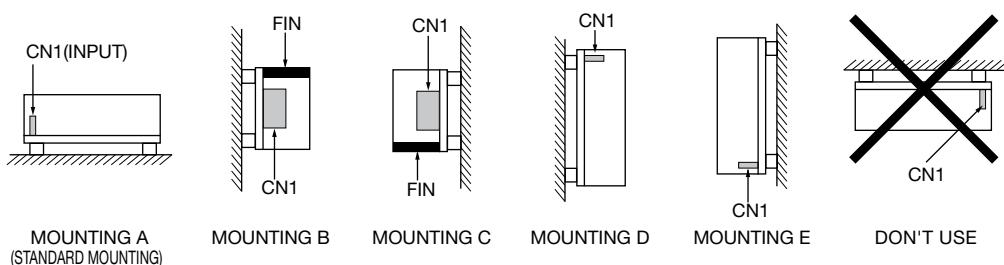
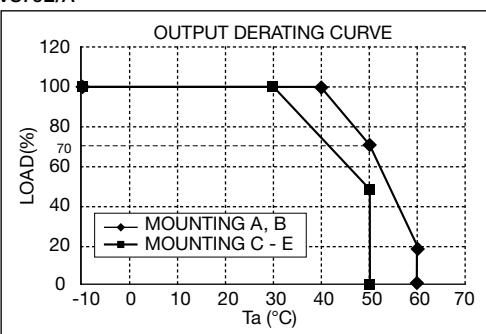


Output Derating

VS75E Standard Specification, /CO2, /FV, /L



VS75E/A



VS100E Specifications

ITEMS/UNITS		MODEL		VS100E-3	VS100E-5	VS100E-12	VS100E-15	VS100E-24	VS100E-48			
Input	Voltage Range	(*)2)	V			AC 85 - 132 or DC 110 - 175						
	Frequency	(*)2)	Hz			47 - 63						
	Efficiency (Typ)	(*)1)	%	80	85		86	87				
	Current (Typ)	(*)1)	A	1.6	2.1							
	Inrush Current (Typ)	(*)1)(*)12)	A			30A at Cold Start						
	Leakage Current	(*)9)	mA			Less than 0.5						
Output	Nominal Voltage	VDC	3.3	5	12	15	24	48				
	Maximum Current	A	20		8.5	7.0	4.3	2.2				
	Maximum Power	W	66.0	100.0	102.0	105.0	103.2	105.6				
	Maximum Line Regulation	(*)3)(*)5)	mV	20		48	60	96	192			
	Maximum Load Regulation	(*)3)(*)6)	mV	40		96	120	150	240			
	Temperature Coefficient	(*)3)			Less than 0.02% / °C							
	Maximum Ripple & Noise(0≤Ta≤70°C)	(*)3)(*)4)	mVp-p	120		150		200				
	Maximum Ripple & Noise(-10≤Ta<0°C)	(*)3)(*)4)	mVp-p	160		180		240				
Function	Hold-up Time (Typ)	(*)1)	ms			20						
	Voltage Adjustable Range	(*)13)	VDC	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5	21.6 - 26.4	43.2 - 52.8			
	Over Current Protection	(*)7)	A	21.0 -		8.92 -	7.35 -	4.51 -	2.31 -			
	Over Voltage Protection	(*)8)	VDC	3.80 - 4.46	5.75 - 6.75	13.8 - 16.2	17.3 - 20.3	27.6 - 32.4	55.2 - 64.8			
Environment	Parallel Operation					-						
	Series Operation					Possible						
	Operating Temperature	(*)10)	°C			Convection : -10 - +70 (-10 - +50:100%, +60:70%, +70:20%)						
	Storage Temperature	°C			-30 - +85							
	Operating Humidity	%RH			30 - 90 (No dewdrop)							
	Storage Humidity	%RH			10 - 95 (No dewdrop)							
	Vibration					At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s² Constant, X,Y,Z 1hour each.						
	Shock					Less than 196.1m/s²						
Isolation	Cooling					Convection Cooling						
	Withstand Voltage					Input - FG : 2kVAC (10mA), Input - Output : 2kVAC (10mA) Output - FG : 500VAC (20mA) for 1min						
	Isolation Resistance					More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC						
Standards	Safety Standards					Approved by UL62368-1, CSA62368-1, EN62368-1, EN50178(OV II), UL60950-1, CSA60950-1, EN60950-1. (Expire date of 60950-1: 20/12/2020) Designed to meet Den-an Appendix 12 (J60950-1).						
	EMI					Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B						
	Immunity					Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3), -5(Level 2,3), -6(Level 3), -8(Level 4), -11						
Mechanical	Weight (Typ)			g			290					
	Size (WxHxD)	(*)11)	mm			62 x 29 x 155 (Refer to Outline Drawing)						

*Read instruction manual carefully, before using the power supply unit.

(*)1) At 100VAC, Ta=25°C, nominal output voltage and maximum output power.

(*)2) For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 120VAC(50/60Hz).

(*)3) Please refer to Fig. A for measurement of line & load regulation and ripple voltage.

(*)4) For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification.

However, there is no overshoot at start up and output ripple noise specification can be met after one second.

(*)5) 85 - 132VAC, constant load.

(*)6) No load-Full load, constant input voltage.

(*)7) 3.3, 5V model: Constant current limit and hiccup with automatic recovery.

12 - 48V model: Constant current limit with automatic recovery.

Avoid to operate at over load or short circuit condition for more than 30seconds.

(*)8) OVP circuit will shut the output down, manual reset (Re power on).

(*)9) Measured by the each measuring method of UL, CSA, EN and DENAN(at 60Hz), Ta=25°C.

(*)10) Ratings

- Derating at standard mounting. Refer to output derating curve(A241-01-02_).

- Load (%) is percent of maximum output power or maximum output current, whichever is greater.

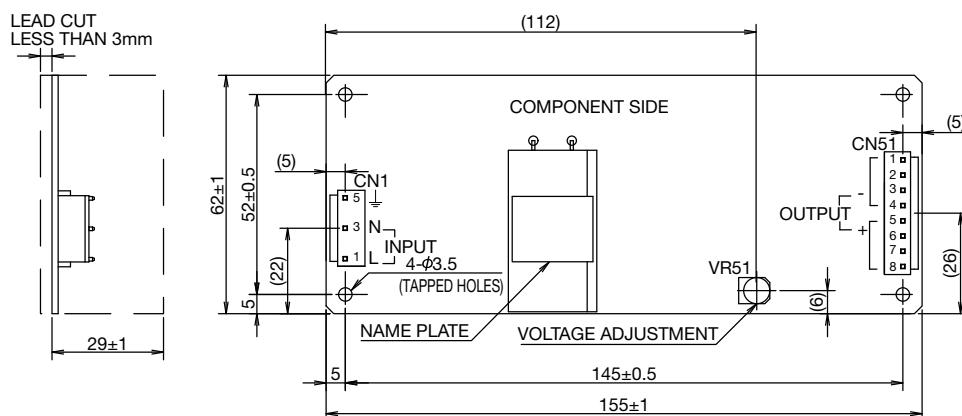
(*)11) Not include lead length on solder side.

(*)12) Inrush Current suppressors type. Limits vary according to ambient temperature and in case of re-entry.

(*)13) /FV option is for fixed output voltage.

Outline Drawing

VS100E Standard Specification, /CO2, /FV



CONNECTOR USED

PART DESCRIPTION	PART NAME	MANUFACT	QTY
PIN HEADER (INPUT SIDE CN1)	B3P5-VH(LF)(SN)	J.S.T.	1
PIN HEADER(OUTPUT SIDE CN51)	B8P-VH(LF)(SN)	J.S.T.	1

* OUTPUT CURRENT OF EACH CONNECTOR PIN MUST BE LESS THAN 5A.

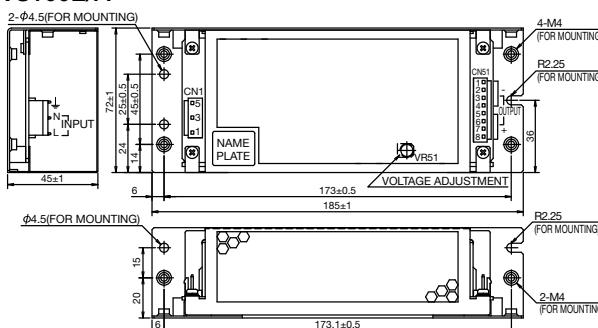
MATCHING HOUSINGS & PIN.(NOT INCLUDED WITH THE PRODUCT.)

PART DESCRIPTION	PART NAME	MANUFACT	QTY
SOCKET HOUSING (CN1)	VHR-5N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-8N	J.S.T.	1
Terminal pin	SVH-21T-P1.1 BVH-21T-P1.1	J.S.T.	11
HAND CRIMPING TOOL	YC-160R	J.S.T.	-

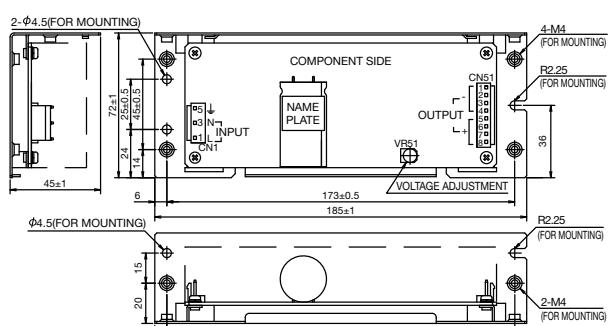
OPEN HARNESS

	PART NAME
INPUT	HA-2-IN
OUTPUT	HA-5-OU

VS100E/A

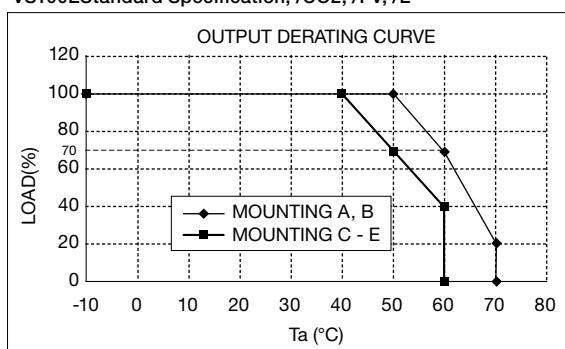


VS100E/L

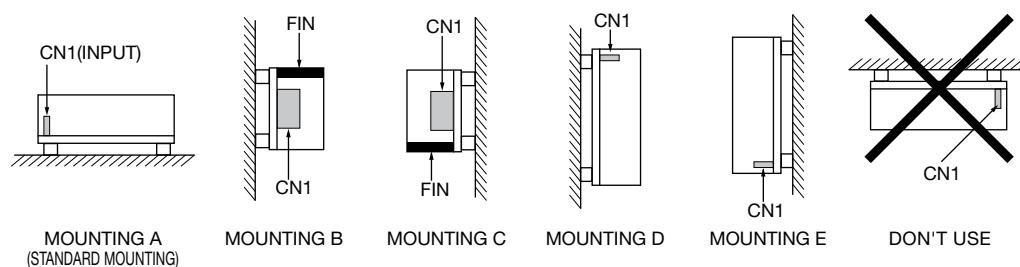
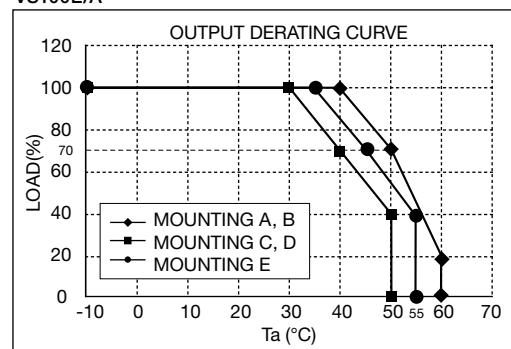


Output Derating

VS100E Standard Specification, /CO2, /FV, /L



VS100E/A



VS150E Specifications

ITEMS/UNITS		MODEL		VS150E-3	VS150E-5	VS150E-12	VS150E-15	VS150E-24	VS150E-48
Input	Voltage Range	(*)2)	V			AC 85 - 132 or DC 110 - 175			
	Frequency	(*)2)	Hz			47 - 63			
	Efficiency (Typ)	(*)1)	%	80	86	87	88		
	Current (Typ)	(*)1)	A	2.4			3.2		
	Inrush Current (Typ)	(*)1)(*)12)	A			30A at Cold Start			
	Leakage Current	(*)9)	mA			Less than 0.5			
Output	Nominal Voltage	VDC	3.3	5	12	15	24	48	
	Maximum Current	A	30		12.5	10.0	6.3	3.2	
	Maximum Power	W	99.0	150.0		151.2	153.6		
	Maximum Line Regulation	(*)3)(*)5)	mV	20	48	60	96	192	
	Maximum Load Regulation	(*)3)(*)6)	mV	40	96	120	150	240	
	Temperature Coefficient	(*)3)			Less than 0.02% / °C				
	Maximum Ripple & Noise(0≤Ta≤70°C)	(*)3)(*)4)	mVp-p	120	150		200		
	Maximum Ripple & Noise(-10≤Ta<0°C)	(*)3)(*)4)	mVp-p	160	180		240		
Function	Hold-up Time (Typ)	(*)1)	ms			20			
	Voltage Adjustable Range	(*)13)	VDC	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5	21.6 - 26.4	43.2 - 52.8
	Over Current Protection	(*)7)	A	31.5 -		13.12 -	10.5 -	6.61 -	3.36 -
	Over Voltage Protection	(*)8)	VDC	3.80 - 4.46	5.75 - 6.75	13.8 - 16.2	17.3 - 20.3	27.6 - 32.4	55.2 - 64.8
Environment	Parallel Operation					-			
	Series Operation					Possible			
	Operating Temperature	(*)10)	°C			Convection : -10 - +70 (-10 - +50:100%, +60:70%, +70:20%)			
	Storage Temperature	°C			-30 - +85				
	Operating Humidity	%RH			30 - 90 (No dewdrop)				
	Storage Humidity	%RH			10 - 95 (No dewdrop)				
	Vibration					At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s² Constant, X,Y,Z 1hour each.			
	Shock					Less than 196.1m/s²			
Isolation	Cooling					Convection Cooling			
	Withstand Voltage					Input - FG : 2kVAC (10mA), Input - Output : 2kVAC (10mA) Output - FG : 500VAC (20mA) for 1min			
	Isolation Resistance					More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC			
Standards	Safety Standards					Approved by UL62368-1, CSA62368-1, EN62368-1, EN50178(OV II), UL60950-1, CSA60950-1, EN60950-1. (Expire date of 60950-1: 20/12/2020) Designed to meet Den-an Appendix 12 (J60950-1).			
	EMI					Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B			
	Immunity					Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3), -5(Level 2,3), -6(Level 3), -8(Level 4), -11			
Mechanical	Weight (Typ)			g			390		
	Size (WxHxD)	(*)11)	mm			75 x 34 x 160 (Refer to Outline Drawing)			

*Read instruction manual carefully, before using the power supply unit.

(*)1) At 100VAC, Ta=25°C, nominal output voltage and maximum output power.

(*)2) For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 120VAC(50/60Hz).

(*)3) Please refer to Fig. A for measurement of line & load regulation and ripple voltage.

(*)4) For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification.

However, there is no overshoot at start up and output ripple noise specification can be met after one second.

(*)5) 85 - 132VAC, constant load.

(*)6) No load-Full load, constant input voltage.

(*)7) 3.3, 5V model: Constant current limit and hiccup with automatic recovery.

12 - 48V model: Constant current limit with automatic recovery.

Avoid to operate at over load or short circuit condition for more than 30seconds.

(*)8) OVP circuit will shut the output down, manual reset (Re power on).

(*)9) Measured by the each measuring method of UL, CSA, EN and DENAN(at 60Hz), Ta=25°C.

(*)10) Ratings

- Derating at standard mounting. Refer to output derating curve(A242-01-02_).

- Load (%) is percent of maximum output power or maximum output current, whichever is greater.

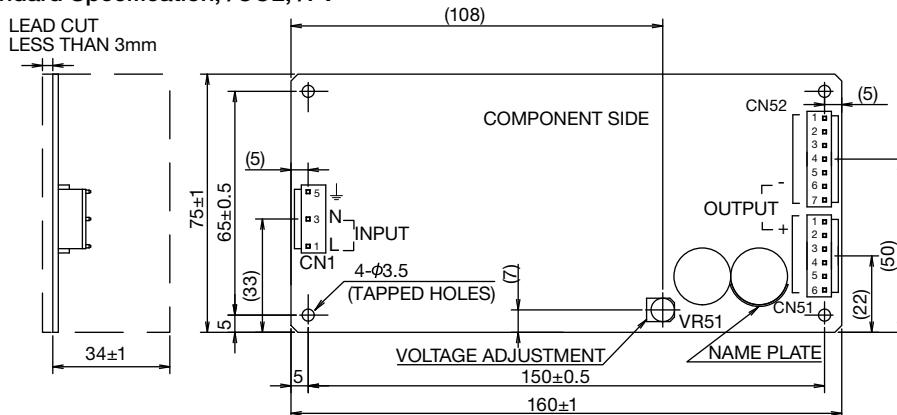
(*)11) Not include lead length on solder side.

(*)12) Inrush Current suppressors type. Limits vary according to ambient temperature and in case of re-entry.

(*)13) /FV option is for fixed output voltage.

Outline Drawing

VS1150E Standard Specification, /CO2, /FV



CONNECTOR USED

PART DESCRIPTION	PART NAME	MANUFACT	QTY
PIN HEADER (INPUT SIDE CN1)	B3P5-VH(LF)(SN)	J.S.T.	1
PIN HEADER(OUTPUT SIDE CN51)	B6P-VH(LF)(SN)	J.S.T.	1
PIN HEADER(OUTPUT SIDE CN52)	B7P-VH(LF)(SN)	J.S.T.	1

* OUTPUT CURRENT OF EACH CONNECTOR PIN MUST BE LESS THAN 5A.

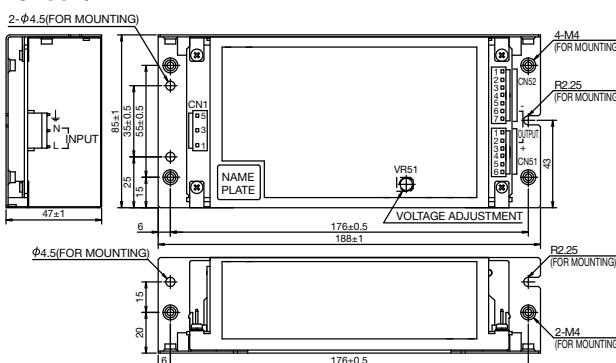
MATCHING HOUSINGS & PIN.(NOT INCLUDED WITH THE PRODUCT.)

PART DESCRIPTION	PART NAME	MANUFACT	QTY
SOCKET HOUSING (CN1)	VHR-5N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-6N	J.S.T.	1
SOCKET HOUSING (CN52)	VHR-7N	J.S.T.	1
Terminal pin	SVH-21T-P1.1 BVH-21T-P1.1	J.S.T.	11
HAND CRIMPING TOOL	YC-160R	J.S.T.	-

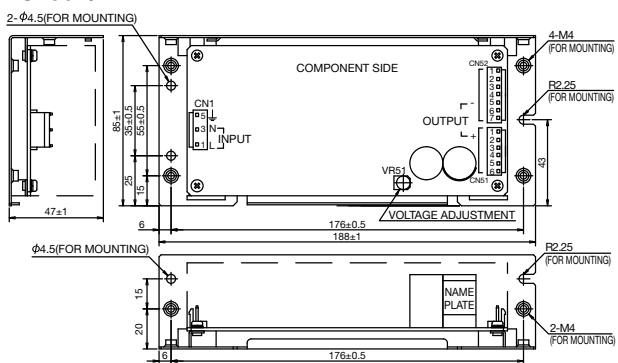
OPEN HARNESS

	PART NAME
INPUT	HA-2-IN
OUTPUT	+ : HA-6-OU - : HA-7-OU

VS150E/A

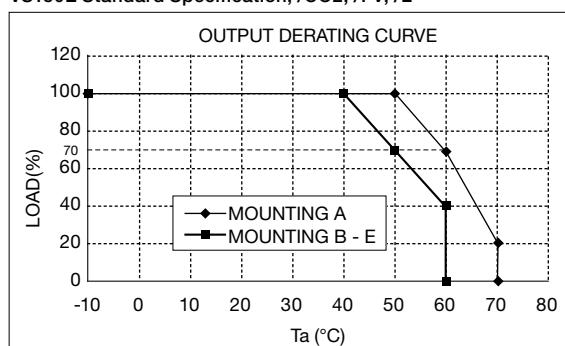


VS150E/L

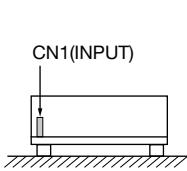
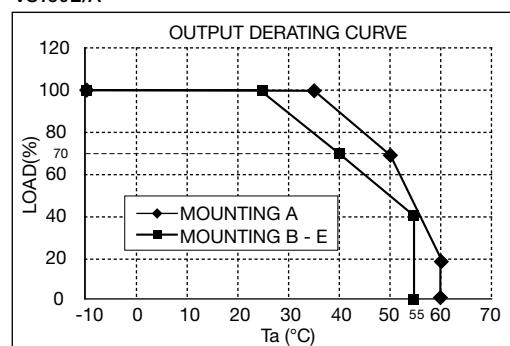


Output Derating

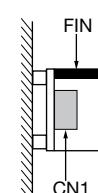
VS150E Standard Specification, /CO2, /FV, /L



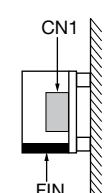
VS150E/A



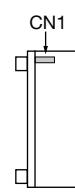
MOUNTING A
(STANDARD MOUNTING)



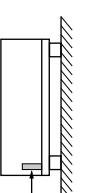
MOUNTING B



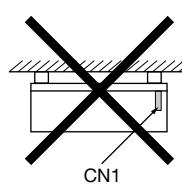
MOUNTING C



MOUNTING D



MOUNTING E



VS-E Series Instruction Manual

Be sure to read this instruction manual thoroughly before using this product. Pay attention to all cautions and warnings before using this product.

VS-E Series Instruction Manual https://product.tdk.com/info/en/documents/instruction_manual/vs-e_apl.pdf

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