JAH Series

AC Input Single Output, General-Purpose

FEATURES

- Low profile, single output AC.200V input power supply.
- Small open frame.
- These low noise power supplies are FCC/VDE class B standards compliant.
- Low price.

PART NUMBERS AND RATINGS

	10W type		15W type		25W type	25W type	
Output voltage(v)	Current(A)	Part No.	Current(A)	Part No.	Current(A)	Part No.	
5	2	JAH05-2R0	3	JAH05-3R0	5	JAH05-5R0	
12	0.84	JAH12-R84	1.3	JAH12-1R3	2.1	JAH12-2R1	
15	0.67	JAH15-R67	1	JAH15-1R0	1.7	JAH15-1R7	
24	0.42	JAH24-R42	0.63	JAH24-R63	1.1	JAH24-1R1	
	50W type		100W type		150W type		
Output voltage(v)	Current(A)	Part No.	Current(A)	Part No.	Current(A)	Part No.	
5	10	JAH05-10R	20	JAH05-20R	30	JAH05-30R	
12	4.2	JAH12-4R2	8.4	JAH12-8R4	12.5	JAH12-13R	
15	3.4	JAH15-3R4	6.7	JAH15-6R7	10	JAH15-10R	
24	2.1	JAH24-2R1	4.2	JAH24-4R2	6.3	JAH24-6R3	



JAH Series

AC Input Single Output, General-Purpose

SPECIFICATIONS

10W TYPE	
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Part No.			JAH05-2R0	JAH12-R84	JAH15-R67	JAH24-R42		
Output voltage, current*1			5V • 2A	12V • 0.84A	15V • 0.67A	24V • 0.42A		
Maximum output	power	W	10	10.1	10.1	10.1		
Input requirement	nts							
Input voltage Ea	c*2	V	170 to 265[Rating:200-240)]				
Input frequency		Hz	47 to 66[Single phase]					
Input current		А	0.2max.[200V]					
Fuse rating		А	1.25[Internal]					
Surge current	Surge current A 20max.[200V]							
Leakage current mA 0.75max.[240V, operating]								
Efficiency		%	71typ.	73typ.	73typ.	73typ.		
Output character	ristics							
Output voltage		V	5	12	15	24		
Voltage variable	range	V	4.5 to 5.5	10.8 to 13.2	13.5 to 16.5	21.6 to 26.4		
Maximum output	t current*1	А	2	0.84	0.67	0.42		
Overvoltage thre	shold	V	5.6 to 6.9	13.4 to 15.7	16.7 to 19	26.7 to 30.5		
Overcurrent thre	shold	А	2.1min.	0.9min.	0.7min.	0.44min.		
	Input variation	%	2max.(1typ.)[Within the inp	out voltage range]				
	Load variation	%	2max.(1typ.)[10 to 100% load] Total variation +3max (+1typ.)					
Voltage stability	Temperature variation	%	2max.(1typ.)[0 to +40°C]					
Drift		%	0.5max.(0.1typ.)[After input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]					
Ripple noise Ep-	p	mV	120max.	190max.	220max.	310max.		
Start up time		ms	400max.[200V]					
Hold up time		ms	30min.(42typ.)[200V]					
Accessory equip	ment							
Operation indica	tor		None					
Overvoltage prot	tection		Voltage shielding type, recovers upon reset(interval approx. 40s).					
Overcurrent prot	ection		Fixed current and voltage threshold type, automatic recovery, but overcurrent of 1s min. is shielded.					
Remote ON-OFF	=		None					
Remote sensing			None					
Output voltage e	xternal variable		None					
function			None					
Standards								
Safety standards	6		EN60950(TÜV) approved.					
Noise terminal v	oltage		VCCI class 2, FCC class E	3, VDE class B compliant.				
Construction								
External dimens	ions H×W×L	mm	21×60×120					
Weight		g	110max.					
Mounting metho	d		1 side (Open frame)					

*1 Current rating(maximum output current) is determined for -10 to +40°C. Derating is required when used outside this temperature range.
*2 Output can stop if input voltage drops below the minimum value continuously for over 1s during supply of power to load.

JAH Series

AC Input Single Output, General-Purpose

SPECIFICATIONS

15W TYPE

Part No.			JAH05-3R0	JAH12-1R3	JAH15-1R0	JAH24-R63		
Output voltage, o	current*1		5V • 3A	12V • 1.3A	15V • 1A	24V • 0.63A		
Maximum output power W		W	15	15.6	15	15.1		
Input requirement	nts							
Input voltage Ea	C* ²	V	170 to 265[Rating:200-240)]				
Input frequency		Hz	47 to 66[Single phase]					
Input current		А	0.25max.[200V]					
Fuse rating		А	1.25[Internal]					
Surge current		А	20max.[200V, 25°C, cold start]					
Leakage current		mA	0.75max.[240V, operating]					
Efficiency		%	72typ.	76typ.	76typ.	77typ.		
Output characte	ristics							
Output voltage		V	5	12	15	24		
Voltage variable	range	V	4.5 to 5.5	10.8 to 13.2	13.5 to 16.5	21.6 to 26.4		
Maximum output	t current*1	А	3	1.3	1	0.63		
Overvoltage three	eshold	V	5.6 to 6.9	13.4 to 15.7	16.7 to 19	26.7 to 30.5		
Overcurrent thre	shold	А	3.2min.	1.4min.	1.05min.	0.66min.		
	Input variation	%	2max.(1typ.)[Within the inp	out voltage range]				
	Load variation	%	2max.(1typ.)[10 to 100% load] Total variation +3max (+1typ)					
Voltage stability Temperature variation		%	2max.(1typ.)[0 to +40°C]					
	Drift	%	0.5max.(0.1typ.)[After input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./1max.[50 to 100%	sudden load change]				
Ripple noise Ep-	·р	mV	120max.	190max.	220max.	310max.		
Start up time		ms	400max.[200V]					
Hold up time		ms	18min.(25typ.)[200V]					
Accessory equip	ment							
Operation indica	tor		None					
Overvoltage pro	tection		oltage shielding type, recovers upon reset(interval approx. 40s).					
Overcurrent prot	ection		Fixed current and voltage threshold type, automatic recovery, but overcurrent of 1s min. is shielded.					
Remote ON-OF	-		None					
Remote sensing			None					
Output voltage e	external variable		None					
function								
Standards								
Standards Safety standards	8		EN60950(TÜV3) approved	I.				
Standards Safety standards Noise terminal v	s oltage		EN60950(TÜV3) approved VCCI class 2, FCC class E	I. 3, VDE class B compliant.				
Standards Safety standards Noise terminal v Construction	s oltage		EN60950(TÜV3) approved VCCI class 2, FCC class E	I. 3, VDE class B compliant.				
Standards Safety standards Noise terminal v Construction External dimens	s oltage ions H×W×L	mm	EN60950(TÜV3) approved VCCI class 2, FCC class E 21×60×120	I. 3, VDE class B compliant.				
Standards Safety standards Noise terminal v Construction External dimens Weight	s oltage ions H×W×L	mm g	EN60950(TÜV3) approved VCCI class 2, FCC class E 21×60×120 110max.	I. 3, VDE class B compliant.				

*1 Current rating(maximum output current) is determined for -10 to +40°C. Derating is required when used outside this temperature range.

*2 Output can stop if input voltage drops below the minimum value continuously for over 1s during supply of power to load.

JAH Series

AC Input Single Output, General-Purpose

SPECIFICATIONS

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25W TYF	ΡE

Part No.			JAH05-5R0	JAH12-2R1	JAH15-1R7	JAH24-1R1		
Output voltage,	current*1		5V • 5A	12V • 2.1A	15V • 1.7A	24V • 1.1A		
Maximum output power W		W	25	25.2	25.5	26.4		
Input requirement	nts							
Input voltage Ea	IC*2	V	170 to 265[Rating:200-240)]				
Input frequency		Hz	47 to 66[Single phase]					
Input current		A	0.35max.[200V]					
Fuse rating		А	1.6[Internal]					
Surge current		А	30max.[200V, 1st surge current]					
Leakage current	t	mA	0.75max.[240V, operating]					
Efficiency		%	77typ.	77typ.	79typ.	80typ.		
Output characte	ristics							
Output voltage		V	5	12	15	24		
Voltage variable	range	V	4.5 to 5.5	10.8 to 13.2	13.5 to 16.5	21.6 to 26.4		
Maximum output	t current*1	А	5	2.1	1.7	1.1		
Overvoltage three	eshold	V	5.6 to 6.9	13.4 to 15.7	16.7 to 19	26.7 to 30.5		
Overcurrent thre	eshold	А	5.3min.	2.2min.	1.8min.	1.2min.		
	Input variation	%	2max.(1typ.)[Within the inp	out voltage range]				
	Load variation	%	2max.(1typ.)[10 to 100% load] Total variation ±3max.(±1typ.)					
Voltage stability	Temperature variation	%	2max.(1typ.)[0 to +40°C]					
	Drift	%	0.5max.(0.1typ.)[After input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]					
Ripple noise Ep-	-р	mV	120max.	190max.	220max.	310max.		
Start up time		ms	500max.[200V]					
Hold up time		ms	27min.(35typ.)[200V]					
Accessory equip	oment							
Operation indica	ator		None					
Overvoltage pro	tection		Voltage shielding type, rec	covers upon reset(interval ap	prox. 40s).			
Overcurrent prot	tection		Fixed current and voltage	threshold type, automatic re-	covery, but overcurrent of 1	s min. is shielded.		
Remote ON-OF	F		None					
Remote sensing	1		None					
Output voltage e	external variable		Nono					
function			None					
Standards								
Safety standards	S		EN60950(TÜV) approved.					
Noise terminal v	oltage		VCCI class 2, FCC class E	3, VDE class B compliant.				
Construction								
External dimens	ions H×W×L	mm	25×60×143					
Weight		g	160max.					
Mounting motho	d		1 side (Open frame)					

*1 Current rating(maximum output current) is determined for -10 to +40°C. Derating is required when used outside this temperature range.
*2 Output can stop if input voltage drops below the minimum value continuously for over 1s during supply of power to load.

JAH Series

AC Input Single Output, General-Purpose

SPECIFICATIONS

50W TYPE

Part No.			JAH05-10R0	JAH12-4R2	JAH15-3R4	JAH24-2R1		
Output voltage, o	current*1		5V • 10A	12V • 4.2A	15V • 3.4A	24V • 2.1A		
Maximum output	t power	W	50	50.4	51	50.4		
Input requirement	nts							
Input voltage Ea	C*2	V	170 to 265[Rating:200-240	D]				
Input frequency		Hz	47 to 66[Single phase]					
Input current		А	0.65max.[200V]					
Fuse rating		А	2[Internal]					
Surge current		А	30max.[200V, 25°C, cold start]					
Leakage current		mA	0.75max.[240V, operating]					
Efficiency		%	80typ.	80typ.	82typ.	83typ.		
Output characte	ristics							
Output voltage		V	5	12	15	24		
Voltage variable	range	V	4.5 to 5.5	10.8 to 13.2	13.5 to 16.5	21.6 to 26.4		
Maximum output	t current*1	А	10	4.2	3.4	2.1		
Overvoltage three	eshold	V	5.6 to 6.9	13.4 to 15.7	16.7 to 19	26.7 to 30.5		
Overcurrent thre	shold	А	10.5min.	4.4min.	3.5min.	2.2min.		
	Input variation	%	2max.(1typ.)[Within the input voltage range]					
	Load variation	%	2max.(1typ.)[10 to 100% load] Total variation +3max (+1typ.)					
Voltage stability	Temperature variation	%	2max.(1typ.)[0 to +40°C]					
	Drift	%	0.5max.(0.1typ.)[After input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]					
Ripple noise Ep-	·р	mV	120max.	190max.	220max.	310max.		
Start up time		ms	500max.[200V]					
Hold up time		ms	17min.(25typ.)[200V]					
Accessory equip	oment							
Operation indica	itor		None					
Overvoltage pro	tection		Voltage shielding type, recovers upon reset(interval approx. 40s).					
Overcurrent prot	tection		Fixed current and voltage threshold type, automatic recovery, but overcurrent of 1s min. is shielded.					
Remote ON-OF	F		None					
Remote sensing			None					
Output voltage e function	external variable		None					
Standards								
Safety standards	S		EN60950(TÜV) approved.					
Noise terminal v	oltage		VCCI class 2, FCC class E	B, VDE class B compliant.				
Construction								
External dimens	ions H×W×L	mm	30×60×185					
Weight		g	240max.					
Mounting metho	d		1 side (Open frame)					

*1 Current rating(maximum output current) is determined for -10 to +40°C. Derating is required when used outside this temperature range.
*2 Output can stop if input voltage drops below the minimum value continuously for over 1s during supply of power to load.

JAH Series

AC Input Single Output, General-Purpose

SPECIFICATIONS

100W TYPE	
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Part No.			JAH05-20R	JAH12-8R4	JAH15-6R7	JAH24-4R2		
Output voltage,	current*1		5V • 20A	12V • 8.4A	15V • 6.7A	24V • 4.2A		
Maximum outpu	t power	W	100	100.8	100.5	100.8		
Input requirement	nts							
Input voltage Ea	с	V	170 to 265[Rating:200-240)]				
Input frequency		Hz	47 to 66[Single phase]					
Input current		А	1.5max.[200V]					
Fuse rating		А	3.15[Internal]					
Surge current		А	30max.[200V, 1st surge current, reset after roughly 10s min.]					
Leakage current		mA	0.75max.[240V, operating]					
Efficiency		%	81typ.	84typ.	85typ.	87typ.		
Output characte	ristics							
Output voltage		V	5	12	15	24		
Voltage variable	range	V	4.5 to 5.5	10.8 to 13.2	13.5 to 16.5	21.6 to 26.4		
Maximum output	t current*1	А	20	8.4	6.7	4.2		
Overvoltage three	eshold	V	5.6 to 6.9	13.4 to 15.7	16.7 to 19	26.7 to 30.5		
Overcurrent three	shold	А	21min.	8.9min.	7.1min.	4.5min.		
	Input variation	%	2max.(1typ.)[Within the inp	he input voltage range]				
	Load variation	%	2max.(1typ.)[10 to 100% load] Total variation +3max (+1typ)					
Voltage stability Temperature variation		%	2max.(1typ.)[0 to +40°C]	989				
	Drift	%	0.5max.(0.1typ.)[After input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]					
Ripple noise Ep-	-р	mV	120max.	190max.	220max.	310max.		
Start up time		ms	250max.[200V]					
Hold up time		ms	27min.(35typ.)[200V]					
Accessory equip	oment							
Operation indica	tor		None					
Overvoltage pro	tection		Voltage shielding type, recovers upon reset(interval approx. 40s).					
Overcurrent prof	tection*2		Fixed current and voltage threshold type, automatic recovery, but overcurrent of 1s min. is shielded.					
Remote ON-OF	F		None					
Remote sensing			None					
Output voltage e	external variable f	unction	None					
Standards								
Safety standards	5		EN60950(TÜV) approved.					
Noise terminal v	oltage		VCCI class 2, FCC class E	VDE class B compliant.				
Construction								
External dimens	ions H×W×L	mm	35×75×222					
Weight		g	550max.					
Mounting metho	d		1 side (Open frame)					

*1 Current rating(maximum output current) is determined for -10 to +40°C. Derating is required when used outside this temperature range.

*² The power supply can be damaged if output current exceeds the rated value, and the overload condition(output current that is greater than the output current rating and less than the overcurrent detection threshold) continues for 1min minimum.

JAH Series

AC Input Single Output, General-Purpose

SPECIFICATIONS

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Part No.			JAH05-30R	JAH12-13R	JAH15-10R	JAH24-6R3			
Output voltage,	current*1		5V • 30A	12V • 12.5A	15V • 10A	24V • 6.3A			
Maximum outpu	t power	W	150	150	150	151.2			
Input requirement	nts								
Input voltage Ea	C	V	170 to 265[Rating:200-240	0]					
Input frequency		Hz	47 to 66[Single phase]						
Input current		A	1.95max.[200V]						
Fuse rating		А	3.15[Internal]						
Surge current		А	30max.[200V, 1st surge current, reset after roughly 10s min.]						
Leakage current	t	mA	0.75max.[240V, operating]]					
Efficiency		%	82typ.	83typ.	84typ.	86typ.			
Output characte	ristics								
Output voltage		V	5	12	15	24			
Voltage variable	range	V	4.5 to 5.5	10.8 to 13.2	13.5 to 16.5	21.6 to 26.4			
Maximum output	t current*1	A	30	12.5	10	6.3			
Overvoltage three	eshold	V	5.6 to 6.9	13.4 to 15.7	16.7 to 19	26.7 to 30.5			
Overcurrent thre	eshold	A	31.5min.	13.2min.	10.5min.	6.7min.			
	Input variation	%	2max.(1typ.)[Within the inp	put voltage range]					
	Load variation	%	2max.(1typ.)[10 to 100% load] Total variation +3max (+1typ)						
Voltage stability	Temperature variation	%	2max.(1typ.)[0 to +40°C]						
	Drift	%	0.5max.(0.1typ.)[After input voltage ON for 30min to 8h]						
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]						
Ripple noise Ep-	-р	mV	120max.	190max.	220max.	310max.			
Start up time		ms	250max.[200V]						
Hold up time		ms	30min.(40typ.)[200V]						
Accessory equip	oment								
Operation indica	itor		None						
Overvoltage pro	tection		Voltage shielding type, recovers upon reset(interval approx. 40s).						
Overcurrent prof	tection*2		Fixed current and voltage threshold type, automatic recovery, but overcurrent of 1s min. is shielded.						
Remote ON-OF	F		None						
Remote sensing	l		None						
Output voltage e function	external variable		None						
Standards									
Safety standards	S		EN60950(TÜV) approved.						
Noise terminal v	oltage		VCCI class 2, FCC class E	B, VDE class B compliant.					
Construction									
External dimens	ions H×W×L	mm	40×85×222						
Weight		g	620max.						
Mounting metho	d		1 side (Open frame)						

 *¹ Current rating(maximum output current) is determined for -10 to +40°C. Derating is required when used outside this temperature range.
*² The power supply can be damaged if output current exceeds the rated value, and the overload condition(output current that is greater than the output current rating and less than the overcurrent detection threshold) continues for 1min minimum.

AC Input Single Output, General-Purpose

TERMINAL DESIGNATIONS AND FUNCTIONS JAH10W



JAH15W



JAH25W



JAH Series

- Terminal No. 1: Input terminal(No. 1 pin of CP1) Live line. Fuse is built in.
- Terminal No. 2: Input terminal(No. 4 pin of CP1) Neutral line
- Terminal No. 3: Input terminal(No. 8 pin of CP1) Ground

Terminal No. 4: Ground

Connect with input terminal(No. 8 pin of CP1). If the power supply is connected electrically to equipment via the spacer, etc., the spacer material should be electrically conductive(spacer contact surface=6mm max. dia.).

- Terminal No. 5: Output voltage adjustment
- Clockwise rotation increases output voltage.
- Terminal No. 6: + output terminal(No. 2 pin of CP51)
- Terminal No. 7: output terminal(No. 1 pin of CP51)
- Terminal No. 8: Spacer mounting hole

A spacer should be used that is constructed from an insulating material(spacer contact surface=6mm max. dia.).

Terminal No. 1: Input terminal(No. 1 pin of CP1)

- Live line. Fuse is built in.
- Terminal No. 2: Input terminal(No. 4 pin of CP1) Neutral line
- Terminal No. 3: Input terminal(No. 8 pin of CP1) Ground

Terminal No. 4: Ground

Connect with input terminal(No. 8 pin of CP1). If the power supply is connected electrically to equipment via the spacer, etc., the spacer material should be electrically conductive(spacer contact surface=6mm max. dia.).

- Terminal No. 5: Output voltage adjustment
- Clockwise rotation increases output voltage.
- Terminal No. 6: + output terminals(No. 3 and 4 pins of CP51)
- Terminal No. 7: output terminals(No. 1 and 2 pins of CP51)
- Terminal No. 8: Spacer mounting hole

A spacer should be used that is constructed from an insulating material(spacer contact surface=6mm max. dia.).

Terminal No. 1: Input terminal(No. 6 pin of CP1)

Live line. Fuse is built in.

- Terminal No. 2: Input terminal(No. 4 pin of CP1) Neutral line
- Terminal No. 3: Input terminal(No. 1 pin of CP1) Ground

Terminal No. 4: Ground

Connect with input terminal(No. 1 pin of CP1). If the power supply is connected electrically to equipment via the spacer, etc., the spacer material should be electrically conductive(spacer contact surface=6mm max. dia.).

Terminal No. 5: Output voltage adjustment

Clockwise rotation increases output voltage.

Terminal No. 6: + output terminals(No. 1 and 2 pins of CP51)

Terminal No. 7: - output terminals(No. 3 and 4 pins of CP51)

Terminal No. 8: Spacer mounting hole

A spacer should be used that is constructed from an insulating material(spacer contact surface=6mm max. dia.).

AC Input Single Output, General-Purpose

TERMINAL DESIGNATIONS AND FUNCTIONS

JAH50W □9 clearance 8 1-ø3 □9 clearance (both product and soldering surface) (both product and soldering surface) Q Ο 4-ø3.5 œ □9 grounding pad (soldering surface) 9 grounding pad (soldering surface) clearance clearance (product surface) (product surface)

JAH100W



JAH150W



JAH Series

- Terminal No. 1: Input terminal(No. 6 pin of CP1) Live line. Fuse is built in.
- Terminal No. 2: Input terminal(No. 4 pin of CP1)
 - Neutral line
- Terminal No. 3: Input terminal(No. 1 pin of CP1) Ground

Terminal No. 4: Ground

Connect with input terminal(No. 1 pin of CP1). If the power supply is connected electrically to equipment via the spacer, etc., the spacer material should be electrically conductive(spacer contact surface=6mm max. dia.).

- Terminal No. 5: Output voltage adjustment
- Clockwise rotation increases output voltage.
- Terminal No. 6: + output terminals(No. 1 and 2 pins of CP51)
- Terminal No. 7: output terminals(No. 3 and 4 pins of CP51)
- Terminal No. 8: Spacer mounting hole
- A spacer should be used that is constructed from an insulating material(spacer contact surface=6mm max. dia.).
- Terminal No. 1: Input terminal(No. 6 pin of CP1)
- Live line. Fuse is built in.
- Terminal No. 2: Input terminal(No. 4 pin of CP1) Neutral line
- Terminal No. 3: Input terminal(No. 1 pin of CP1)
- Ground
- Terminal No. 4: Ground

Connect with input terminal(No. 1 pin of CP1). If the power supply is connected electrically to equipment via the spacer, etc., the spacer material should be electrically conductive(spacer contact surface=6mm max. dia.).

- Terminal No. 5: Output voltage adjustment
- Clockwise rotation increases output voltage.

Terminal No. 6: + output terminals(No. 1 to 4 pins of CP51)

- Terminal No. 7: output terminals(No. 5 to 8 pins of CP51)
- Terminal No. 8: Spacer mounting hole

A spacer should be used that is constructed from an insulating material(spacer contact surface=6mm max. dia.).

- Terminal No. 1: Input terminal(No. 6 pin of CP1)
- Live line. Fuse is built in. Terminal No. 2: Input terminal(No. 4 pin of CP1)
- Neutral line
- Terminal No. 3: Input terminal(No. 1 pin of CP1) Ground
- Terminal No. 4: Ground

Connect with input terminal(No. 1 pin of CP1). If the power supply is connected electrically to equipment via the spacer, etc., the spacer material should be electrically conductive(spacer contact surface=6mm max. dia.).

Terminal No. 5: Output voltage adjustment

Clockwise rotation increases output voltage.

Terminal No. 6: + output terminals(No. 1 to 6 pins of CP51)

Terminal No. 7: - output terminals(No. 1 to 7 pins of CP52)

Terminal No. 8: Spacer mounting hole

A spacer should be used that is constructed from an insulating material(spacer contact surface=6mm max. dia.).

Terminal No. 9: VCC terminal(No. 1 pin of CP2)

VCC+

Terminal No. 10: VCC terminals(No. 2 pin of CP2) VCC-

15±2V should be applied to the VCC terminals if JAH power supplies are used in parallel. An isolated external DC power supply should be used to apply this voltage to the VCC terminals.

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