







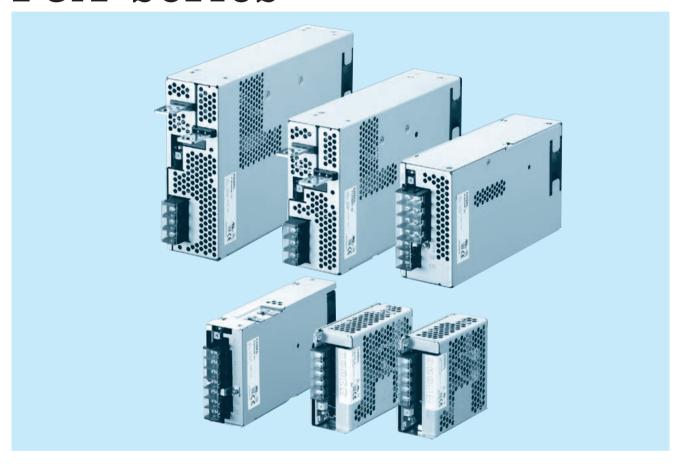








PJA-series



Feature

Low Profile (PJA100F, 150F, 300F : 1U size)

(PJA600F, 1000F, 1500F : 2U size)

Wide temperature range (-20 $^{\circ}$ C to +70 $^{\circ}$ C, Derating is required) Harmonic attenuator (Complies with IEC61000-3-2 class A)

Universal input (AC85 - 264V, Derating is required)

Low power consumption at no load

Complies with SEMI F-47 (PJA1000F, 1500F can meet at 200V

input range only)

Many optional functions

Safety agency approvals

UL62368-1, C-UL (CSA62368-1), EN62368-1 UL508 (PJA100F, 150F) Complies with DEN-AN

5-year warranty (See Instruction Manual)

CE marking

Low Voltage Directive RoHS Directive

EMI

Complies with FCC-B, CISPR22-B, EN55011-B, EN55022-B, VCCI-B

(PJA1500F: Class A. In conducted noise, it can meet class B by additional EMI/EMC filter.)

EMS Compliance: EN61204-3, EN61000-6-2

EN61000-4-2

EN61000-4-3

EN61000-4-4

EN61000-4-5

EN61000-4-6

EN61000-4-8

EN61000-4-11

June 25, 2020 PJA-1

PJA100F

100





Example recommended EMI/EMC filter NAC-04-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- ①Series name ②Single output ③Output wattage ④Universal input

- ⑤Output voltage
- Optional *6
 C: with Coating
 R: Remote on/off
 - (Required external power source)
 - J : EP (Tyco Electronics)
- connector type J1 : VH (J.S.T.) connector type
- T: Vertical terminal block
- N2: with DIN rail

See 6.1 in Instruction Manual.

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

SPECIFICATIONS

* Please consider "PBA100F-5-N" about 5V output with case cover.

31 E011	ICATIONS		* Please consider "PBA"	· · · · · · · · · · · · · · · · · · ·	_					
	MODEL		PJA100F-12	PJA100F-15	PJA100F-24	PJA100F-36	PJA100F-48			
	VOLTAGE[V]			t derating is required at	AC85V - 115V. Refer to	"Derating" and instructi	on manual 1.1, 3)			
		ACIN 100V	1.2typ (lo=90%)							
	CURRENT[A]	ACIN 115V	1.1typ (lo=100%)							
		ACIN 230V	0.6typ (lo=100%)							
	FREQUENCY[Hz]		50 / 60 (47 - 63)							
		ACIN 100V	82typ (lo=90%)	83typ (lo=90%)	85typ (lo=90%)	86typ (Io=90%)	86typ (lo=90%)			
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	83typ (lo=100%)	85typ (lo=100%)	86typ (Io=100%)	86typ (Io=100%)			
IPUT		ACIN 230V	85typ (lo=100%)	86typ (lo=100%)	88typ (lo=100%)	89typ (Io=100%)	89typ (Io=100%)			
		ACIN 100V	0.98typ (lo=90%)							
	POWER FACTOR	ACIN 115V	98typ (lo=100%)							
		ACIN 230V	0.90typ (lo=100%) * F	Power factor correction is	s stopped at AC250V or	more.				
		ACIN 100V	16typ (lo=90%) Ta=25°	C at cold start						
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25	5℃ at cold start						
		ACIN 230V	32typ (lo=100%) Ta=25	5°C at cold start						
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 240V, 6	60Hz, Io=100%, Accordi	ng to IEC62368-1 and D	EN-AN)				
	VOLTAGE[V]		12	15	24	36	48			
		ACIN 85-115V	Output derating is requi	ired at ACIN 115V or les	ss (Refer to "Derating")					
	CURRENT[A]	ACIN 115V-264V	8.4	6.7	4.3	2.8	2.1			
		ACIN 85-115V		ired at ACIN 115V or les	1		1			
	WATTAGE[W]	ACIN 115V-264V	100.8	100.5	103.2	100.8	100.8			
	LINE REGULATION[m		48max	60max	96max	144max	192max			
	LOAD REGULATION	lo=30 to 100%	100max	120max	150max	150max	300max			
	[mV] *3	lo=0 to 30%		e contact us about detail		Toomax	Coomax			
	RIPPLE[mVp-p]	0 to +40℃	120max	120max	120max	150max	150max			
	*1	-10 to 0°C	160max	160max	160max	200max	400max			
UTPUT	lo: load factor	10 10 0	500max	500max	500max	500max	500max			
001701		0 to +40°C	150max	150max	150max	200max	200max			
	RIPPLE NOISE[mVp-p]	-10 to 0°C	180max	180max	180max	240max	500max			
	lo: load factor		600max	600max	600max	600max	600max			
		0 to +40°C	120max	150max	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +40°C	180max	180max	290max	440max	600max			
	DRIFT[mV]	*2	48max	60max	96max	144max	192max			
	START-UP TIME[ms]	*2	500typ (ACIN 115V, Io=		Bolliax	144IIIax	192IIIax			
			** '							
	HOLD-UP TIME[ms]	IT DANCEIVE	20typ (ACIN 115V, Io=1	· '	01.00 to 00.40	00 40 to 00 00	40.00 to 50.00			
	OUTPUT VOLTAGE ADJUSTMEN			13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80			
	OVERCURRENT PROTE		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92			
	OVERCURRENT PROTE			ting and recovers autom		44 40 45 50 40	E4.00 & 07.00			
ROTECTION	OVERVOLTAGE PROTE		13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	54.00 to 67.20			
RCUIT AND THERS	OPERATING INDICAT	IUN	LED (Green)							
IIIENJ	REMOTE SENSING		Not provided		ion D\					
	REMOTE ON/OFF		, , ,	ernal power source. Opt		t				
	INPUT-OUTPUT • RC	*8			500V 50MΩ min (At roc					
OLATION	INPUT-FG				500V 50MΩ min (At roc					
	OUTPUT RC-FG	*8			500V 50MΩ min (At roo					
	OUTPUT-RC	*8			500V 50MΩ min (At roo					
	OPERATING TEMP.,HUMID.AND		,		(Non condensing), 3,00					
IVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE			9,000m (30,000 feet) ma					
	VIBRATION				minutes each along X, Y	and Z axes				
	IMPACT		\ //	, once each X, Y and Z						
AFETY AND	AGENCY APPROVAL	S			UL508 (Except option -	I, -J1) Complies with DI	EN-AN			
NOT	CONDUCTED NOISE		Complies with FCC-B,	VCCI-B, CISPR22-B, EN	N55011-B, EN55022-B					
OISE EGULATIONS	HARMONIC ATTENUA		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B Complies with IEC61000-3-2 class A							

PJA-2 June 25, 2020





OTHERS	CASE SIZE/WEIGHT	41×97×109mm [1.61×3.82×4.29 inches] (Excluding terminal block and screw) (W×H×D) / 500g max
OTHERS	COOLING METHOD	Convection
WARRANTY	WARRANTY	*5 5 years (subject to the operating conditions)

*1 This is the result of measurement of the testing board with canacitors of 22 U.F. and 0.1 U.F. placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103.

See 1.6 of Instruction Manual for more details. When the load factor is 0 - 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.

Drift is the change in DC output for an eight hour period after a half-

hour warm-up at 25℃.

- *3 Consult us about dynamic load and input response. Measure the output voltage by using the average mode of the tester to deal with the burst operation at 30% load or less.
- Output power derating is required. Refer to "Derating"
- See 4 in Instruction Manual for more details.
- Consult us about safety agency approvals for the models with optional functions
- Consult us about other classe
- The RC terminal is added to option -R models. The RC terminal is isolated

from input, output, and FG.

Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be

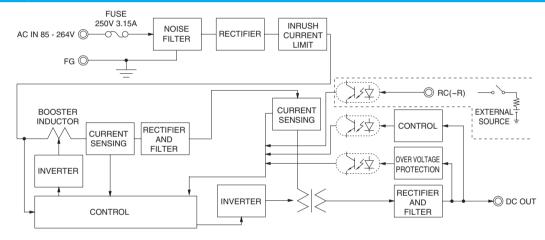
Parallel operation is not possible with this mode

Sound noise may be heard from the power supply when used for

Features

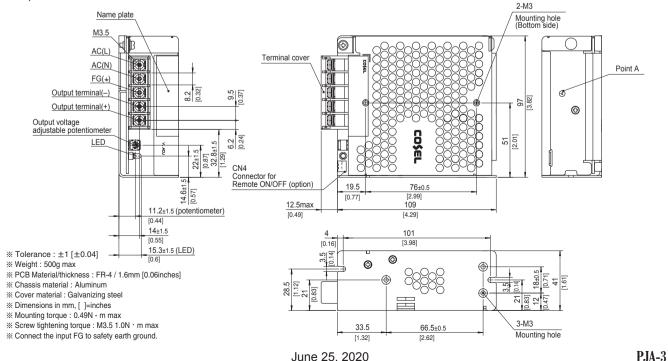
- · Compact design (Depth: 109mm 4.29inches)
- · High efficiency (88%typ PJA100F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J, -J1), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface options (vertical terminal [-T], AMP connector [-J], [-J1])

Block diagram



External view

The external size of -R option, -J option, -J1 option, -N2 option and -T option models is different from the standard model. See "6. Options and Others" in Instruction Manual for more details.



June 25, 2020

PJA150F

150







High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- ①Series name ②Single output ③Output wattage ④Universal input
- ⑤Output voltage
- ®Optional *6
 C: with Coating
 R: Remote on/off
- (Required external power source)
- J : EP (Tyco Electronics)
- connector type J1 : VH (J.S.T.) connector type
- T: Vertical terminal block
- N2: with DIN rail

See 6.1 in Instruction Manual.

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

SPECIFICATIONS

* Please consider "PBA150F-5-N" about 5V output with case cover.

J. EOII !	ICATIONS		* Please consider "PBA"		_						
	MODEL		PJA150F-12	PJA150F-15	PJA150F-24	PJA150F-36	PJA150F-48				
	VOLTAGE[V]			t derating is required at	AC85V - 115V. Refer to	"Derating" and instructi	on manual 1.1, 3)				
		ACIN 100V	1.7typ (lo=90%)								
	CURRENT[A]	ACIN 115V	1.6typ (lo=100%)								
		ACIN 230V	0.8typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	84typ (Io=90%)	84typ (Io=90%)	87typ (lo=90%)	87typ (lo=90%)	87typ (Io=90%)				
	EFFICIENCY[%]	ACIN 115V	84typ (lo=100%)	84typ (lo=100%)	87typ (lo=100%)	87typ (Io=100%)	87typ (Io=100%)				
PUT		ACIN 230V	87typ (Io=100%)	87typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)	90typ (Io=100%)				
		ACIN 100V	0.98typ (lo=90%)								
	POWER FACTOR	ACIN 115V	98typ (Io=100%)								
		ACIN 230V	0.93typ (lo=100%) * F	Power factor correction is	s stopped at AC250V or	more.					
		ACIN 100V	16typ (lo=90%) Ta=25°	C at cold start							
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25	5℃ at cold start							
		ACIN 230V	32typ (lo=100%) Ta=25	5°C at cold start							
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 240V, 6	60Hz, Io=100%, Accordi	ng to IEC62368-1 and D	EN-AN)					
	VOLTAGE[V]		12	15	24	36	48				
		ACIN 85-115V	Output derating is requ	ired at ACIN 115V or les	ss (Refer to "Derating")						
	CURRENT[A]	ACIN 115V-264V	12.5	10	6.4	4.2	3.2				
		ACIN 85-115V		ired at ACIN 115V or les	1		1				
	WATTAGE[W]	ACIN 115V-264V	150.0	150.0	153.6	151.2	153.6				
	LINE REGULATION[m		48max	60max	96max	144max	192max				
	LOAD REGULATION	lo=30 to 100%	100max	120max	150max	150max	300max				
	[mV] *3	lo=0 to 30%		e contact us about detail		Toomax	Coomax				
	RIPPLE[mVp-p]	0 to +40℃		120max	120max	150max	150max				
	*1	-10 to 0°C	160max	160max	160max	200max	400max				
UTPUT	lo: load factor	10 10 0	500max	500max	500max	500max	500max				
001101		0 to +40°C		150max	150max	200max	200max				
	RIPPLE NOISE[mVp-p]	-10 to 0°C		180max	180max	240max	500max				
	lo: load factor			600max	600max	600max	600max				
		0 to +40°C	120max	150max	240max	360max	480max				
	TEMPERATURE REGULATION[mV]	-10 to +40°C	180max	180max	290max	440max	600max				
	DRIFT[mV]	*2	48max	60max	96max	144max	192max				
	START-UP TIME[ms]	72	500typ (ACIN 115V, Io=		Joinax	144IIIax	192IIIax				
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
	HOLD-UP TIME[ms]	T DANCENA	20typ (ACIN 115V, Io=1	, '	01.00 to 00.40	00 40 to 00 00	40.00 to 50.00				
	OUTPUT VOLTAGE ADJUSTMEN			13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80				
	OVERCURRENT PROTE		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
	OVERCURRENT PROTE			ting and recovers autom		44 40 45 50 40	E4.00 & 07.00				
ROTECTION	OVERVOLTAGE PROTE		13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	54.00 to 67.20				
RCUIT AND HERS	OPERATING INDICAT	IUN	LED (Green)								
LIIO	REMOTE SENSING		Not provided Optional (Required external power source. Option -R)								
	REMOTE ON/OFF					una da una na unado const					
	INPUT-OUTPUT • RC	*8			500V 50MΩ min (At roc						
OLATION	INPUT-FG	J-4			500V 50MΩ min (At roo						
	OUTPUT RC-FG	*8			$500V 50M\Omega$ min (At roo						
	OUTPUT-RC				500V 50MΩ min (At roo						
	OPERATING TEMP.,HUMID.AND		,		(Non condensing), 3,00						
VIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE		<u> </u>	9,000m (30,000 feet) ma						
	VIBRATION				minutes each along X, Y	and ∠ axes					
	IMPACT		\ //	s, once each X, Y and Z							
AFETY AND	AGENCY APPROVAL	S			UL508 (Except option -	I, -J1) Complies with DI	EN-AN				
DISE	CONDUCTED NOISE				N55011-B, EN55022-B						
EGULATIONS	HARMONIC ATTENUA		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B Complies with IEC61000-3-2 class A								

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OTHERS	CASE SIZE/WEIGHT	41×97×129mm [1.61×3.82×5.08 inches] (Excluding terminal block and screw) (W×H×D) / 600g max
UITENS	COOLING METHOD	Convection
WARRANTY	WARRANTY	*5 5 years (subject to the operating conditions)

This is the result of measurement of the testing board with capacitors of 22 U.F. and 0.1 U.F. placed at 150 mm from the output terminals by a 20. MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken

See 1.6 of Instruction Manual for more details.

When the load factor is 0 - 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications

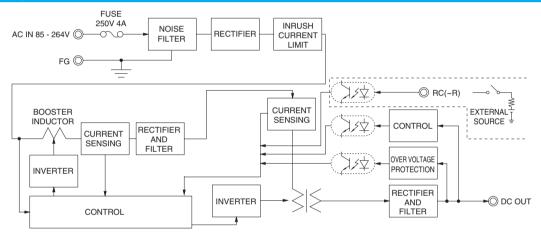
Drift is the change in DC output for an eight hour period after a half-

- hour warm-up at 25℃.
- *3 Consult us about dynamic load and input response Measure the output voltage by using the average mode of the tester to deal with the burst operation at 30% load or less.
- Output power derating is required. Refer to "Derating".
- See 4 in Instruction Manual for more details.
- Consult us about safety agency approvals for the models with optional functions
- Consult us about other class
- The RC terminal is added to option -R models. The RC terminal is
- isolated from input, output, and FG.
- Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be
- Parallel operation is not possible with this mode
- Sound noise may be heard from the power supply when used for

Features

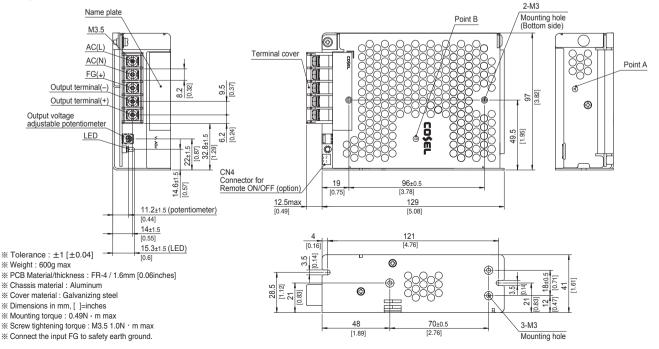
- · Compact design (Depth: 129mm 5.08inches)
- · High efficiency (90%typ PJA150F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J, -J1), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface options (vertical terminal [-T], AMP connector [-J], [-J1])

Block diagram



External view

The external size of -R option, -J option, -J1 option, -N2 option and -T option models is different from the standard model. See "6. Options and Others" in Instruction Manual for more details.



June 25, 2020

PJA-5

PJA300F

300



Example recommended EMI/EMC filter NAC-06-472

- ①Series name ②Single output ③Output wattage ④Universal input
- ⑤Output voltage
- (a) Output voltage
 (b) Optional *6
 (c) with Coating
 (c) Low leakage current
 (c) V: External potentiometer for
- output voltage adjustment
- R : Remote on/off
- (Required external power source) F4: Low speed fan

See 6.1 in Instruction Manual.

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

SPECIFICATIONS

	MODEL		PJA300F-5	PJA300F-12	PJA300F-15	PJA300F-24	PJA300F-36	PJA300F-48				
	VOLTAGE[V]		AC85 - 264 1 φ (O	utput derating is req	uired at AC85V - 100	V. Refer to "Derating	" and instruction ma	ınual 1.1, 3)				
		ACIN 100V	3.5typ (lo=100%) 3.9typ (lo=100%)									
	CURRENT[A]	ACIN 115V	3.0typ (lo=100%)									
		ACIN 230V	1.5typ (lo=100%)	1.7typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)									
		ACIN 100V	73typ (lo=100%)	79typ (lo=100%)	81typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%)	82typ (lo=100%)				
	EFFICIENCY[%]	ACIN 115V	74typ (lo=100%)	80typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)				
NPUT		ACIN 230V	77typ (lo=100%)	82typ (lo=100%)	84typ (lo=100%)	86typ (lo=100%)	87typ (lo=100%)	86typ (lo=100%				
		ACIN 100V	0.99typ (lo=100%)									
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)									
		ACIN 230V	0.95typ (lo=100%)									
		ACIN 100V	20typ (Io=100%) Ta	a=25℃ at cold start								
	INRUSH CURRENT[A]	ACIN 115V	20typ (lo=100%) Ta	a=25°C at cold start								
		ACIN 230V	40typ (Io=100%) Ta	a=25°C at cold start								
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 24	OV, 60Hz, lo=100%,	According to IEC623	68-1 and DEN-AN)						
	VOLTAGE[V]		5	12	15	24	36	48				
	OUDDENITIAL	ACIN 85-100V	Output derating is	required at ACIN 100	OV or less (Refer to "I	Derating")	•	'				
	CURRENT[A]	ACIN 100V-264V	50	25	20	12.5	8.4	6.3				
	WATTA OF 1147	ACIN 85-100V	Output derating is	required at ACIN 100	OV or less (Refer to "I	Derating")	•	-				
	WATTAGE[W]	ACIN 100V-264V	250	300	300	300	302.4	302.4				
	LINE REGULATION[n	nV] *3	20max	48max	60max	96max	144max	192max				
	LOAD REGULATION	mV] *3	40max	100max	120max	150max	150max	300max				
	RIPPLE[mVp-p] *1 RIPPLE NOISE[mVp-p] *1 TEMPERATURE REGULATION[mV]	0 to +50°C	80max	120max	120max	120max	150max	150max				
		-10 to 0℃	140max	160max	160max	160max	160max	400max				
OUTPUT		0 to +50°C	120max	150max	150max	150max	200max	200max				
		-10 to 0°C	160max	180max	180max	180max	240max	500max				
		0 to +50°C	50max	120max	150max	240max	360max	480max				
		-10 to +50°C	75max	180max	180max	290max	440max	600max				
	DRIFT[mV] *2		20max	48max	60max	96max	144max	192max				
	START-UP TIME[ms]		300typ (ACIN 100\	/, lo=100%)			'					
	HOLD-UP TIME[ms]		20typ (ACIN 100V,	Io=100%)								
	OUTPUT VOLTAGE ADJUSTME	NT RANGE[V]	4.50 to 5.50	10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80				
	OUTPUT VOLTAGE SETT	ING[V]	5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
	OVERCURRENT PROTE	ECTION	Works over 105%	of rating and recover	s automatically	*	•	•				
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20				
CIRCUIT AND	OPERATING INDICAT	TION	LED (Green)		·			-				
OTHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Optional (Required external power source. Option -R)									
	INPUT-OUTPUT • RC	*9	AC3,000V 1minute	, Cutoff current = 10	mA, DC500V 50MΩ	min (At room tempe	erature)					
SOLATION	INPUT-FG		AC2,000V 1minute	, Cutoff current = 10	mA, DC500V 50MΩ	min (At room tempe	erature)					
SULATION	OUTPUT • RC-FG	*9	AC500V 1minute, 0	Cutoff current = 100r	nA, DC500V 50M Ω	min (At room tempe	rature)					
	OUTPUT-RC	*9	AC500V 1minute, 0	Cutoff current = 100r	nA, DC500V 50M Ω	min (At room tempe	rature)					
	OPERATING TEMP.,HUMID.AND	ALTITUDE *4	-20 to +70°C (Refe	r to "Derating"), 20 -	90%RH (Non conder	nsing), 3,000m (10,0	000 feet) max					
- NIVIDONIMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 9	90%RH (Non conde	nsing), 9,000m (30,00	00 feet) max						
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s	² (2G), 3minutes per	riod, 60minutes each	along X, Y and Z ax	es					
	IMPACT	-		1ms, once each X, \								
SAFETY AND	AGENCY APPROVAL	s	· /-		2368-1 Complies with	n DEN-AN						
NOISE	CONDUCTED NOISE											
			<u> </u>	61000-3-2 class A								

PJA-6 June 25, 2020



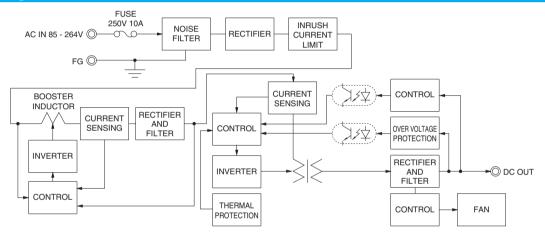


OTHERS	CASE SIZE/WEIGHT		102×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max					
OTHERS	COOLING METHOD *7	Forced co	Forced cooling (internal fan)					
WARRANTY	WARRANTY *5	5 years (si	rears (subject to the operating conditions)					
*1 This is the r	*1 This is the result of measurement of the testing board with capacitors of *3 Consult us about dynamic load and input response. isolated from input, output, and FG.							
22 µ F and	0.1 µF placed at 150 mm from the output termin	als by a 20	*4 Output power derating is required. Refer to "Derating".	*	Do not use the power supply in overcurrent conditions or in unspecified			
MHz oscillo	scope or a ripple-noise meter equivalent to Keis	oku-Giken	*5 See 4 in Instruction Manual for more details.		input voltage ranges. Otherwise the internal components may be			
RM103.			*6 Consult us about safety agency approvals for the models with optional functions.		damaged.			
See 1.6 of I	nstruction Manual for more details.		*7 The fan speed slows down at no load.	*	Parallel operation is not possible with this mode.			
*2 Drift is the o	change in DC output for an eight hour period after	r a half-hour	*8 Consult us about other classes.	*	Sound noise may be heard from the power supply when used for			
warm-up at	25℃.		*9 The RC terminal is added to option –R models. The RC terminal is		pulse load.			

Features

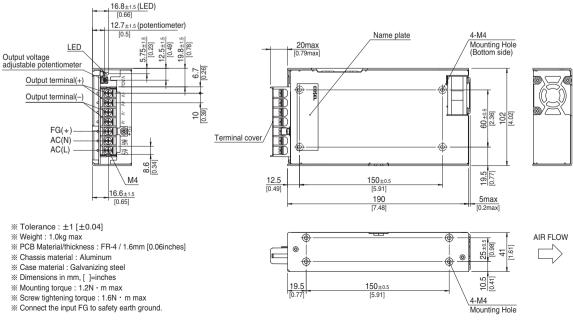
- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 1U height = 41 mm or 1.61 inches)
- · Wide operating temperature range (-20°C to +70°C Refer to "Derating")
- · Slow fan speed at no load
- · Complies with SEMI F-47
- · Many optional functions

Block diagram



External view

The external size of -V option and -R option models is different from the standard model. See "6. Options and Others" in Instruction Manual for more details.



June 25, 2020 PJA-7

PJA600F

600



Example recommended EMI/EMC filter NAC-16-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- (1) Series name
 (2) Single output
 (3) Output wattage
 (4) Universal input
 (5) Output voltage
 (6) Optional *6
 (7) External potentiometer for output voltage adjustment
 (8) Parallel operation,
 11 LV alarm and Remote sensing
 (8) Remote on/off
 (Required external power source)
 (74) F4: Low speed fan

See 6.1 in Instruction Manual.

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

SPECIFICATIONS

	MODEL		PJA600F-5	PJA600F-12	PJA600F-15	PJA600F-24	PJA600F-36	PJA600F-48				
_	VOLTAGE[V]		AC85 - 264 1 φ (O	utput derating is requ	uired at AC85V - 100	V. Refer to "Derating	" and instruction ma	nual 1.1, 3)				
		ACIN 100V	6.7typ (lo=100%) 7.5typ (lo=100%)									
	CURRENT[A]	ACIN 115V	5.7typ (lo=100%)									
		ACIN 230V	2.8typ (lo=100%)	3.2typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)									
		ACIN 100V	76typ (lo=100%)	81typ (lo=100%)	82typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)				
	EFFICIENCY[%]	ACIN 115V	77typ (lo=100%)	82typ (lo=100%)	82typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)	85typ (lo=100%)				
INPUT		ACIN 230V	79typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)				
		ACIN 100V	0.99typ (lo=100%)									
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)									
		ACIN 230V	0.95typ (lo=100%)									
		ACIN 100V	20/40typ (lo=100%) (Primary inrush cu	rrent /Secondary inru	ush current) (More to	han 3sec to re-start)					
	INRUSH CURRENT[A]	ACIN 115V	20/40typ (lo=100%) (Primary inrush cu	rrent /Secondary inru	ush current) (More to	han 3sec to re-start)					
		ACIN 230V	40/40typ (lo=100%) (Primary inrush cu	rrent /Secondary inru	ush current) (More to	han 3sec to re-start)					
	LEAKAGE CURRENT	[mA]	,,,,	, , ,	ccording to IEC6236		,					
	VOLTAGE[V]		5	12	15	24	36	48				
		ACIN 85-100V	Output derating is	equired at ACIN 100	OV or less (Refer to "	Derating")		'				
	CURRENT[A]	ACIN 100V-264V	100	50	40	25	16.7	12.5				
		ACIN 85-100V	Output derating is	equired at ACIN 100	OV or less (Refer to "	Derating")						
	WATTAGE[W]	ACIN 100V-264V	500	600	600	600	601.2	600				
	LINE REGULATION[n		20max	48max	60max	96max	144max	192max				
	LOAD REGULATION		40max	100max	120max	150max	150max	300max				
	RIPPLE[mVp-p] *1 RIPPLE NOISE[mVp-p] *1 TEMPERATURE REGULATION[mV]	0 to +50℃	80max	120max	120max	120max	150max	150max				
_		-20 to 0°C	140max	160max	160max	160max	160max	400max				
OUTPUT		0 to +50°C	120max	150max	150max	150max	200max	200max				
		-20 to 0°C	160max	180max	180max	180max	240max	500max				
		0 to +50°C	50max	120max	150max	240max	360max	480max				
		-20 to +50°C	75max	180max	180max	290max	440max	600max				
	DRIFT[mV] *2		20max	48max	60max	96max	144max	192max				
	START-UP TIME[ms]		300typ (ACIN 100\	/, lo=100%)								
	HOLD-UP TIME[ms]		20typ (ACIN 100V,	· · · · · · · · · · · · · · · · · · ·								
	OUTPUT VOLTAGE ADJUSTME	NT RANGE[V]		10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80				
	OUTPUT VOLTAGE SETT		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
	OVERCURRENT PROTE	ECTION	Works over 105%	of rating and recover	s automatically	,		,				
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20				
CIRCUIT AND	OPERATING INDICAT		LED (Green)									
OTHERS	REMOTE SENSING	-	Optional (Option -W)									
	REMOTE ON/OFF		Optional (Required	external power sou	rce. Option -R)							
	INPUT-OUTPUT • RC	*3	AC3,000V 1minute	, Cutoff current = 10	mA, DC500V 50MΩ	min (At room tempe	erature)					
IOOL ATION	INPUT-FG	-			mA, DC500V 50MΩ							
SOLATION	OUTPUT • RC-FG	*3	AC500V 1minute, 0	Cutoff current = 100r	mA, DC500V 50MΩ	min (At room temper	rature)					
	OUTPUT-RC	*3	AC500V 1minute, 0	Cutoff current = 100r	nA, DC500V 50MΩ	min (At room temper	rature)					
	OPERATING TEMP., HUMID. AND	ALTITUDE *4	-20 to +70°C (Refe	r to "Derating"), 20 -	90%RH (Non conde	nsing), 3,000m (10,0	000 feet) max					
	STORAGE TEMP., HUMID.AND	ALTITUDE	,		nsing), 9,000m (30,0	3,1 1	· · · · · · · · · · · · · · · · · · ·					
ENVIRONMENT	VIBRATION	-			riod, 60minutes each		es					
	IMPACT			1ms, once each X, Y								
SAFETY AND	AGENCY APPROVAL	.s	. ,.		2368-1 Complies with	n DEN-AN						
NOISE	CONDUCTED NOISE				22-B, EN55011-B, El							
REGULATIONS	HARMONIC ATTENU		Complies with IEC		,	-						
			F		-							

PJA-8 June 25, 2020





OTHERS	CASE SIZE/WEIGHT	120×61×215mm [4.72×2.40×8.46 inches] (Excluding terminal block and screw) (W×H×D) / 2.0kg max
OTHERS	COOLING METHOD *	Forced cooling (internal fan)
WARRANTY	WARRANTY *	5 years (subject to the operating conditions)

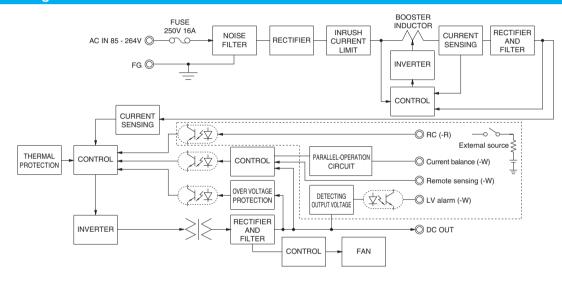
- This is the result of measurement of the testing board with capacitors of 22 μ F and 0.1 μ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103
- See 1.6 of Instruction Manual for more details. Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 °C.
- The BC terminal is added to option -R models. The BC terminal is
- isolated from input, output, and FG.
- Output power derating is required. Refer to "Derating" See 4 in Instruction Manual for more details
- Consult us about safety agency approvals for the models with optional functions.
- Consult us about dynamic load and input response.
- *8 The fan speed slows down at no load.
- Consult us about other classes
 - Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged.
- Parallel operation is allowed for PLA600EA models with the -W option only
- Sound noise may be heard from the power supply when used for pulse load.

Features

- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 2U height = 61 mm or 2.40 inches)
- · Wide operating temperature range (-20°C to +70°C Refer to
- "Derating")

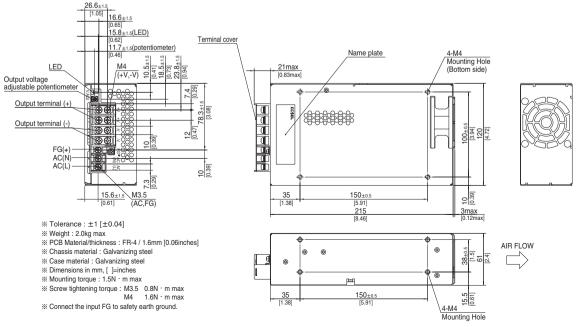
- · Slow fan speed at no load
- · Complies with SEMI F-47
- · Many optional functions

Block diagram



External view

The external size of -V option, -W option and -R option models is different from the standard model. See "6. Options and Others" in Instruction Manual for more details.



June 25, 2020

PJA-9

PJA1000F

1000





High voltage pulse noise type : NAP series Low leakage current type : NAM series

- ①Series name ②Single output ③Output wattage ④Universal input ⑤Output voltage ⑥Optional *8
 - C: with Coating
 - G: Low leakage current
 - V : External potentiometer for output voltage adjustment
 - W: Parallel operation, LV alarm and Remote sensing
 - R: Remote on/off
 - (Required external power source)

See 6.1 in Instruction Manual.

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

SPECIFICATIONS

	MODEL		PJA1000F-12	PJA1000F-15	PJA1000F-24	PJA1000F-36	PJA1000F-48				
,	VOLTAGE[V]		AC85 - 264 1 φ (Outpu	t derating is required at	AC85V - 115V. Refer to	"Derating" and instruction	n manual 1.1, 3)				
		ACIN 100V	12.5typ (lo=90%)								
	CURRENT[A]	ACIN 115V	11.0typ (lo=100%)								
		ACIN 230V	5.5typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)				,				
		ACIN 100V	81typ (Io=90%)	82typ (Io=90%)	84typ (Io=90%)	84typ (Io=90%)	84typ (lo=90%)				
l i	EFFICIENCY[%]	ACIN 115V	82typ (Io=100%)	82typ (lo=100%)	85typ (lo=100%)	85typ (Io=100%)	85typ (lo=100%)				
INPUT		ACIN 230V	85typ (Io=100%)	85typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)				
		ACIN 100V	0.98typ (Io=90%)	, , , , , , , , , , , , , , , , , , ,	1 7	1	1 31 ()				
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%)								
		ACIN 100V	71 \	mary inrush current /Sec	condary inrush current)	(More than 10sec to re-s	start)				
l i	INRUSH CURRENT[A]	ACIN 115V	**			(More than 10sec to re					
		ACIN 230V	,,,			(More than 10sec to re					
h	LEAKAGE CURRENT		**	OHz, Io=100%, According							
	VOLTAGE[V]		12	15	24	36	48				
		ACIN 85-115V	Output derating is regu	ired at ACIN 115V or les							
'	CURRENT[A]	ACIN 115V-264V	84	67	42	28	21				
		ACIN 85-115V		ired at ACIN 115V or les	1	1	1				
'	WATTAGE[W]	ACIN 115V-264V	1008	1005	1008	1008	1008				
h	LINE REGULATION[m		48max	60max	96max	144max	192max				
<u> </u>	LOAD REGULATION[mV] *2		100max	120max	150max	150max	300max				
	RIPPLE[mVp-p]	0 to +50°C	180max	180max	120max	150max	200max				
	nieerc[iiivp-p] *1		240max	240max	160max	200max	500max				
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C	210max	210max	150max	200max	300max				
'		-20 to 0°C	270max	270max	180max	240max	600max				
-		0 to +50°C	120max	150max	240max	360max	480max				
1	TEMPERATURE REGULATION[mV]	-20 to +50°C	180max	180max	290max	440max	600max				
	DRIFT[mV]	*3	48max	60max	96max	144max	192max				
⊢	START-UP TIME[ms]		800typ (ACIN 115V, Io=		Joinax	144IIIdX	13211ldx				
H	HOLD-UP TIME[ms]	-	20typ (ACIN 115V, Io=								
<u> </u>	OUTPUT VOLTAGE ADJUSTMEN	IT DANGEIVI		13.50 to 17.30	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20				
	OUTPUT VOLTAGE SETT		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
	OVERCURRENT PROTE			ting and recovers autom		30.00 10 37.44	46.00 10 49.92				
	OVERVOLTAGE PROTE		14.40 to 17.40	18.00 to 21.80	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20				
	OPERATING INDICAT			18.00 to 21.60	20.00 10 34.00	43.20 10 32.20	37.00 10 07.20				
–	REMOTE SENSING	ION	LED (Green)								
·	REMOTE ON/OFF		Optional (Option -W) Optional (Required external power source. Option -R)								
	INPUT-OUTPUT		<u> </u>			um tomporatura)					
H-	INPUT-FG		AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature) AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)								
- · · · -	OUTPUT-FG			ff current = 100mA, DC							
	OPERATING TEMPHUMID.AND	ALTITUDE **4			· · · · · · · · · · · · · · · · · · ·						
H	. , .		`	Derating"), 20 - 90%RH							
=NVIRONMENT ⊢	STORAGE TEMP., HUMID. AND	ALIIIUDE	· · · · · · · · · · · · · · · · · · ·	RH (Non condensing), 9							
	VIBRATION			G), 3minutes period, 60r		anu ∠ axes					
	IMPACT		· '-	, once each X, Y and Z							
- CALL - L.	AGENCY APPROVAL	ა		A62368-1), EN62368-1 (
–	CONDUCTED NOISE			VCCI-B, CISPR22-B, EN	N55011-B, EN55022-B						
REGULATIONS	HARMONIC ATTENUA	AIOR *5	Complies with IEC6100	JU-3-2 class A							

PJA-10 June 25, 2020





OTHERS	CASE SIZE/WEIGHT	150×61×240mm [5.91×2.40×9.45 inches] (Excluding terminal block and screw) (W×H×D) / 2.8kg max
OTHERS	COOLING METHOD *6	Forced cooling (internal fan)
WARRANTY	WARRANTY *7	5 years (subject to the operating conditions)

Drift is the change in DC output for an eight hour period after a half-hour

- This is the result of measurement of the testing board with capacitors of 22 μ F and 0.1 μ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103
- warm-up at 25℃ Output power derating is required. Refer to "Derating".
- Consult us about safety agency approvals for the models with optional functions.

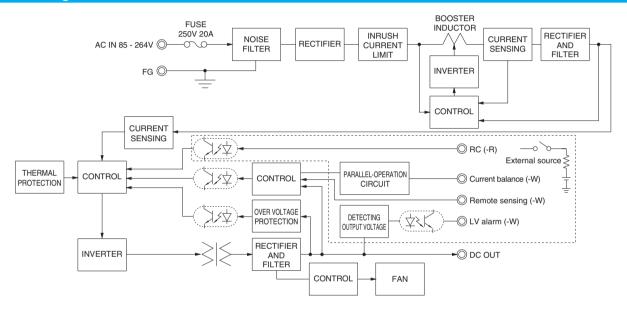
Consult us about other classes

Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged.

- See 1.6 of Instruction Manual for more details. Consult us about dynamic load and input response
- The fan speed slows down or stops at no load. See 4 in Instruction Manual for more details.
- Parallel operation is not possible with this mode. Audible noise may be heard from the power supply when used for pulse load.

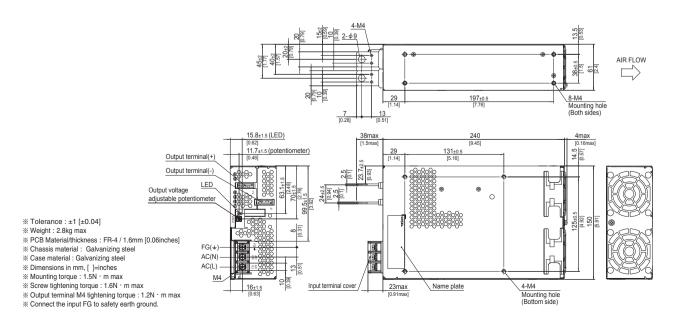
- **Features**
 - · Cost-effective
 - · Longer life (see Instruction Manual)
 - · Low profile (meets 2U height = 61 mm or 2.4 inches)
- · Wide operating temperature range (-20°C to +70°C Refer to
- "Derating")
- · Stop or slow fan speed at no load

Block diagram



External view

The external size of -V option, -W option and -R option models is different from the standard model. See "6. Options and Others" in Instruction Manual for more details.



PJA1500F

1500



- ①Series name ②Single output ③Output wattage ④Universal input ⑤Output voltage ⑥Optional *8

- C: with Coating
- G: Low leakage current
- V : External potentiometer for output voltage adjustment
- W: Parallel operation, LV alarm and Remote sensing
- R : Remote on/off
- (Required external power source)

See 6.1 in Instruction Manual.

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

SPECIFICATIONS

MC	ODEL		PJA1500F-12	PJA1500F-15	PJA1500F-24	PJA1500F-36	PJA1500F-48				
vo	DLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 115V. Refer to "Derating" and instruction manual 1.1, 3)								
		ACIN 100V	18typ (lo=90%)								
cu	JRRENT[A]	ACIN 115V	16typ (lo=100%)								
		ACIN 230V	8typ (lo=100%)								
FR	REQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	81typ (lo=90%)	82typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)				
EF	FICIENCY[%]	ACIN 115V	82typ (lo=100%)	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	84typ (lo=100%)				
INPUT		ACIN 230V	85typ (lo=100%)	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	87typ (lo=100%)				
		ACIN 100V	0.98typ (lo=90%)								
PC	OWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%)								
		ACIN 100V	15/30typ (Io=90%) (Pri	mary inrush current /Sed	condary inrush current)	(More than 10sec to re-s	tart)				
INF	RUSH CURRENT[A]	ACIN 115V	15/30typ (lo=100%) (P	rimary inrush current /Se	econdary inrush current)	(More than 10sec to re-	-start)				
		ACIN 230V	30/30typ (lo=100%) (P	rimary inrush current /Se	econdary inrush current)	(More than 10sec to re-	-start)				
LE	AKAGE CURRENT	[mA]	1.5max (ACIN 240V, 60	Hz, lo=100%, According	g to IEC62368-1 and DE	N-AN)					
VO	DLTAGE[V]		12	15	24	36	48				
	JRRENT[A]	ACIN 85-115V	Output derating is requ	ired at ACIN 115V or les	ss (Refer to "Derating")						
CO	JIII ENT[A]	ACIN 115V-264V	125	100	64	42	32				
14//	ATTAGE[W]	ACIN 85-115V	Output derating is requ	ired at ACIN 115V or les	ss (Refer to "Derating")						
		ACIN 115V-264V	1500	1500	1536	1512	1536				
	NE REGULATION[m		48max	60max	96max	144max	192max				
LO	DAD REGULATION[mV] *2	100max	120max	150max	150max	300max				
RII	PPLE[mVp-p]	0 to +50°C	180max	180max	120max	150max	200max				
оитрит —	*1	-20 to 0°C	240max	240max	160max	200max	500max				
	RIPPLE NOISE[mVp-p]	0 to +50°C	210max	210max	150max	200max	300max				
	*1	-20 to 0°C	270max	270max	270max	240max	600max				
TEM	TEMPERATURE REGULATION[mV]	0 to +50°C	120max	150max	240max	360max	480max				
		-20 to +50°C	180max	180max	290max	440max	600max				
	RIFT[mV]	*3	48max	60max	96max	144max	192max				
	ART-UP TIME[ms]		800typ (ACIN 115V, Io=100%)								
	OLD-UP TIME[ms]		20typ (ACIN 115V, lo=	,	1	1					
	TPUT VOLTAGE ADJUSTMEN		10.80 to 13.50	13.50 to 17.30	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20				
	JTPUT VOLTAGE SETTI		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
	ERCURRENT PROTE			ting and recovers autom		T	T				
	ERVOLTAGE PROTEC		14.40 to 17.40	18.00 to 21.80	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20				
	PERATING INDICAT	ION	LED (Green)								
	MOTE SENSING		Optional (Option -W)		D)						
	EMOTE ON/OFF		<u> </u>	ernal power source. Opti							
	PUT-OUTPUT			toff current = 25mA, DC	,						
	PUT-FG			toff current = 25mA, DC							
	JTPUT-FG	ALTITUDE 4 :		ff current = 100mA, DC5							
	ERATING TEMP.,HUMID.AND		`	Derating"), 20 - 90%RH							
FNVIRONMENT ⊢—	ORAGE TEMP., HUMID.AND	ALITIUDE	· · · · · · · · · · · · · · · · · · ·	RH (Non condensing), 9		_					
	BRATION			G), 3minutes period, 60r		ana ∠ axes					
	PACT		· '-	, once each X, Y and Z							
OAI ETT AILD	SENCY APPROVAL	>		A62368-1), EN62368-1,		ional EMI/EMO Ellere :	mulus al fou +!				
	ONDUCTED NOISE				outra, EN55022-A, addit	ional EMI/EMC Filter is re	quirea for meeting c				
REGULATIONS HA	ARMONIC ATTENUA	AIOR *5	Complies with IEC6100	JU-3-2 class A							

PJA-12 June 25, 2020





OTHERS	CASE SIZE/WEIGHT	178×61×268mm [7.01×2.40×10.55 inches] (Excluding terminal block and screw) (W×H×D) / 3.5kg max
OTHERS	COOLING METHOD *6	Forced cooling (internal fan)
WARRANTY	WARRANTY *7	5 years (subject to the operating conditions)

Drift is the change in DC output for an eight hour period after a half-hour

- This is the result of measurement of the testing board with capacitors of 22 μ F and 0.1 μ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103
- warm-up at 25℃ Consult us about other classes
- Consult us about safety agency approvals for the models with optional functions.

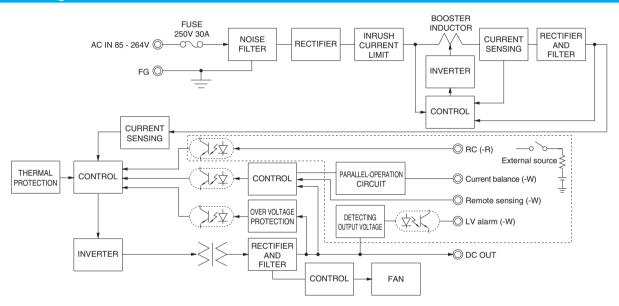
- See 1.6 of Instruction Manual for more details.
- Output power derating is required. Refer to "Derating".
- Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged. Parallel operation is not possible with this mode.

- Consult us about dynamic load and input response
- The fan speed slows down or stops at no load. See 4 in Instruction Manual for more details.
- Audible noise may be heard from the power supply when used for pulse load.

Features

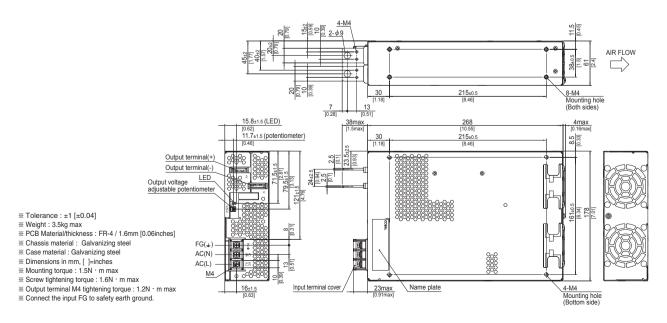
- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 2U height = 61 mm or 2.4 inches)
- · Wide operating temperature range (-20°C to +70°C Refer to
- "Derating")
- · Stop or slow fan speed at no load

Block diagram



External view

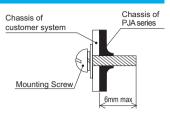
The external size of -V option, -W option and -R option models is different from the standard model. See "6. Options and Others" in Instruction Manual for more details.



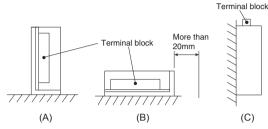
COSEL | PJA-series

Assembling and Installation Method

■Do not insert a screw more than 6mm from the outside of a power supply to keep enough insulation distance between the screw and internal components.

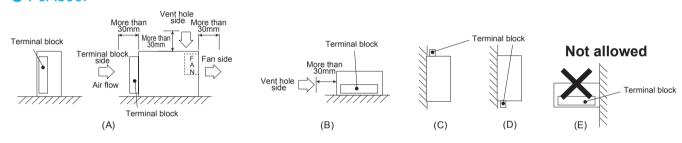


PJA100F, PJA150F

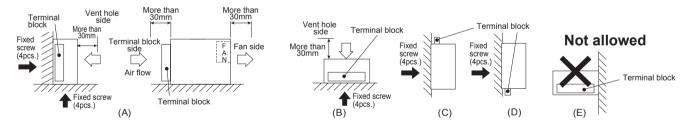


- ■If you use two or more power supplies side by side, please keep a sufficient distance between them to allow enough air ventilation.
- ■Ambient temperature around each power supply should not exceed the temperature range shown in "derating".

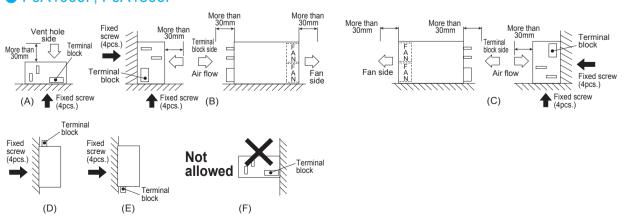
PJA300F



PJA600F



PJA1000F, PJA1500F



PJA-14

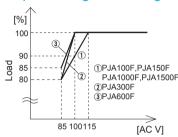


Assembling and Installation Method

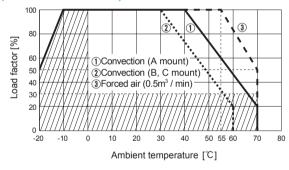
- ■When mounting the power supply with screws, it is recommended that this be done as shown above . If other methods are used, be sure the weight of the power supply is taken into account.
- ■Avoid the not allowed installation method as it gives excessive stress to the mounting holes.
- ■Do not block air flow of the built-in fan (terminal block and ventilation hole).
- If the power supply is used in a dusty environment, use an airfilter. Make sure air flow is not blocked.
- ■If the built-in fan stops, thermal protection will work and the outputwill stop.
- ■The life expectancy (R(t)=90%) of the built-in fan varies depending on the operating condition.

Derating

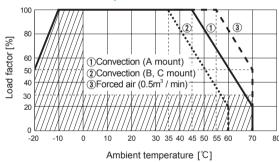
Input voltage Derating Curve



PJA100F/150F-12.15 Ambient temperature Derating Curve (Reference value)

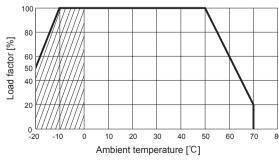


PJA100F/150F-24,36,48 Ambient temperature Derating Curve (Reference value)

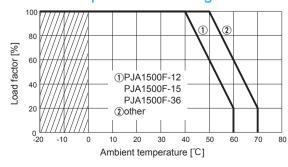


- ■In the hatched area, the specification of Ripple, Ripple Noise is different from other area.
- ■The ambient temperature should be measured 5 to 10 cm away from the power supply so that it won't be influenced by the heat from the power supply. Please consult us for more details.
- ■Make sure the temperature at point A and point B is less than the temperatures shown in Instruction Manual 3.

PJA300F Ambient temperature Derating Curve



PJA600F/1000F/1500F Ambient temperature Derating Curve



■The ambient temperature is defined as the temperature of the air (at the terminal block side) that the built-in cooling fan blows into the power supply. Please pay attention to the heat generated by the input and output wires. Please consult us for more details.



Instruction Manual

♦It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Instruction Manual https://en.cosel.co.jp/product/powersupply/PJA/ Before using our product https://en.cosel.co.jp/technical/caution/index.html





Basic Characteristics Data

Model	Circuit method	Switching frequency [kHz]	Input current [A]	Rated input fuse	Inrush current protection circuit	PCB/Pattern			Series/Parallel operation availability	
						Material	Single sided	Double sided	Series operation	Parallel operation
PJA100F	Active filter	40 to 160	1.2 *1	250V 3.15A	Thermistor	FR-4		Yes	Yes	No
	Flyback converter	20 to 150 *2								
PJA150F	Active filter	40 to 160	1.7 *1	250V 4A	Thermistor	FR-4		Yes	Yes	No
	Flyback converter	20 to 150 *2								
PJA300F	Active filler	60	3.9 *3	250V 10A	Thermistor	FR-4		Yes	Yes	No
	Forward converter	140						res		
PJA600F	Active filler	60	7.5 *3	250V 16A	SCR	FR-4	Ye	Yes	Yes	* 4
	Forward converter	220						res		
PJA1000F	Active filter	65	12.5 *1	250V 20A	TRIAC	FR-4		Yes	Yes	*4
	Forward converter	210								
PJA1500F	Active filter	65	18.0 *1	250V 30A	TRIAC	FR-4		Yes	Yes	*4
	Forward converter	210								

- *1 The input current shown is at ACIN 100V and 90% load.
 *2 The burst mode frequency varies according to the operating conditions. Consult us for more details.
 *3 The input current shown is at ACIN 100V and 100% load.
- *4 Parallal operation is possible with -W option. see "6.Option and Other" is Instruction Manual.

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