



PJA-series



Feature

Low Profile (PJA100F, 150F, 300F : 1U size) (PJA600F, 1000F, 1500F : 2U size) Wide temperature range (-20°C to +70°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



CE marking

Low Voltage Directive RoHS Directive

UKCA marking

Electrical Equipment Safety Regulations RoHS Regulations

EMI

Complies with FCC-B, CISPR22-B, EN55011-B, EN55022-B, VCCI-B (PJA1500F: Class A. In conducted noise, it can meet class 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



SPECIF			* Please consider "PB	A100F-5-N" about 5V ou	tput with case cover.							
	MODEL		PJA100F-12	PJA100F-15	PJA100F-24	PJA100F-36	PJA100F-48					
	VOLTAGE[V]		AC85 - 264 1 φ (Outp	ut derating is required	at AC85V - 115V. Refer to	o "Derating" and instruct	ion 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 (lo=90%)	86typ (Io=90%)					
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	83typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)					
NPUT		ACIN 230V	85typ (lo=100%)	86typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)					
		ACIN 100V	0.98typ (lo=90%)				, , ,					
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)									
		ACIN 230V	0.90tvp (lo=100%) *	.90typ (Io=100%) * Power factor correction is stopped at AC250V or more.								
		ACIN 100V	16tvp (lo=90%) Ta=25	6typ (lo=90%) Ta=25°C at cold start								
	INBUSH CUBBENTIAL	ACIN 115V	16typ (lo=100%) Ta=2	6typ (lo=00%) Ta=25% at cold start								
		ACIN 230V	32typ (lo=100%) Ta=2	25° at cold start								
	I FAKAGE CUBBENT	[mΔ]	0 75max (ACIN 240V	60Hz lo=100% Accor	ding to IEC62368-1 and	DEN-AN)						
		[III/A]	12	15	24	36	48					
		ACIN 85-115V	Output derating is reg	uired at ACIN 115V or	less (Refer to "Derating")							
	CURRENT[A]	ACIN 115V-26/V		67		2.8	21					
		ACIN 95-115V	Output dorating is rea	uired at ACIN 115V or	A.O	2.0	2.1					
	WATTAGE[W]	ACIN 11EV OCAV			102.0	100.9	100.9					
		ACIN 1139-2049	100.0	100.5 60mov	06max	100.0	100.0					
			4011188	100may	9011ax	144111aX	19211lax					
	LOAD REGULATION	10=30 to 100%	Tournax			ISUMAX	Journax					
		10=0 t0 30%	Burst operation (Pleas		all)	450	450					
	RIPPLE[mVp-p]	0 to +40 C	120max	120max	120max	150max	150max					
	lo: load factor	-10 10 00	Tournax	Toomax	Toomax	ZOUMAX	400max					
JUIPUI	10. 10au 1actor	10=0 to 30%	500max	500max	500max	500max	500max					
	RIPPLE NOISE[mVp-p]	0 to +40 C	150max	150max	150max	200max	200max					
	*1	-10 to 0 C	180max	180max	180max	240max	500max					
	10. 10au 1actor	10=0 to 30%	600max	600max	600max	600max	600max					
	TEMPERATURE REGULATION[mV]	0 to +40 C	120max	150max	240max	360max	480max					
		-10 to +40 C	180max	180max	290max	440max	600max					
	DRIFT[mV]	*2	48max	60max	96max	144max	192max					
	START-UP TIME[ms]		500typ (ACIN 115V, Io=100%) Ta=25°C									
	HOLD-UP TIME[ms]		20typ (ACIN 115V, lo=	=100%)								
	OUTPUT VOLTAGE ADJUSTMEN	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	ING[V]	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	CTION	Works over 105% of r	ating and recovers auto	omatically		1					
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	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					
	OPERATING INDICAT	ION	LED (Green)									
JIHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Optional (Required ex	ternal power source. O	ption -R)							
	INPUT-OUTPUT • RC	*8	AC3,000V 1minute, C	utoff current = 10mA, E	0 C500V 50M Ω min (At re	oom temperature)						
SOLATION	INPUT-FG		AC2,000V 1minute, C	utoff current = 10mA, E	0 C500V 50M Ω min (At re	oom temperature)						
	OUTPUT • RC-FG	*8	AC500V 1minute, Cut	off current = 100mA, D	C500V 50M Ω min (At ro	om temperature)						
	OUTPUT-RC	*8	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)									
	OPERATING TEMP., HUMID.AND	ALTITUDE *4	-20 to +70℃ (Refer to	"Derating"), 20 - 90%F	RH (Non condensing), 3,0	000m (10,000 feet) max						
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%	%RH (Non condensing)	, 9,000m (30,000 feet) m	ax						
	VIBRATION		10 - 55Hz, 19.6m/s ² (2	2G), 3minutes period, 6	Ominutes each along X,	Y and Z axes						
	IMPACT		196.1m/s2 (20G), 11m	is, once each X, Y and	Zaxes							
SAFETY AND	AGENCY APPROVAL	s	UL62368-1, C-UL (CS	SA62368-1), EN62368-	1, UL508 (Except option	-J, -J1) Complies with D	EN-AN					
VOISE	CONDUCTED NOISE		Complies with FCC-B	, VCCI-B, CISPR22-B,	EN55011-B, EN55022-B							
RECHI ATIONS			Complian with IECC1									



OTHERS	CASE SIZE/WEIGHT	41×97×109	0mm [1.61×3.82×4.29 inches] (Excluding terminal bloo	ck ar	nd screw) (W×H×D) / 500g max						
UTHENS	COOLING METHOD	Convection	Convection								
WARRANTY	WARRANTY *5	5 years (subj	(subject to the operating conditions)								
*1 This is the capacitors output term equivalent i See 1.6 of When the I reduced by noise to go *2 Drift is the of	result of measurement of the testing board wi of 22 µ F and 0.1 µ F placed at 150 mm from i ninals by a 20 MHz oscilloscope or a ripple-no to Keisoku-Giken RM103. Instruction Manual for more details. load factor is 0 - 30%, the switching power y burst operation, which will cause ripple ar b beyond the specifications. change in DC output for an eight hour period a	th the *3 ise meter loss is *5 nd ripple *6 *7 fter a half- *8	hour warm-up at 25°C. 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 classes. 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 damaged. Parallel operation is not possible with this mode. Sound noise may be heard from the power supply when used for pulse load.						

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.





SPECIF	ICATIONS		* Please consider "PB/	A150F-5-N" about 5V ou	tput with case cover.						
	MODEL		PJA150F-12	PJA150F-15	PJA150F-24	PJA150F-36	PJA150F-48				
	VOLTAGE[V]		AC85 - 264 1 ¢ (Outp	ut derating is required a	at AC85V - 115V. Refer to	o "Derating" and instruct	ion 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 (lo=90%)	84typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)				
	EFFICIENCY[%]	ACIN 115V	84typ (lo=100%)	84typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)				
NPUT		ACIN 230V	87typ (lo=100%)	87typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)				
		ACIN 100V	0.98typ (lo=90%)		1						
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.93typ (lo=100%) *	Power factor correction	is stopped at AC250V o	or more.					
		ACIN 100V	16typ (lo=90%) Ta=25	6typ (lo=90%) Ta=25℃ at cold start							
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=2	6typ (lo=100%) Ta=25°C at cold start							
		ACIN 230V	32typ (lo=100%) Ta=2	5℃ at cold start							
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 240V,	60Hz, Io=100%, Accor	ding to IEC62368-1 and	DEN-AN)					
	VOLTAGE[V]	-	12	15	24	36	48				
		ACIN 85-115V	Output derating is req	uired at ACIN 115V or	ess (Refer to "Derating")						
	CORRENT[A]	ACIN 115V-264V	12.5	10	6.4	4.2	3.2				
		ACIN 85-115V	Output derating is req	uired at ACIN 115V or	ess (Refer to "Derating")						
	WATTAGE[W]	ACIN 115V-264V	150.0	150.0	153.6	151.2	153.6				
	LINE REGULATION[n	י וV] *3	48max	60max	96max	144max	192max				
	LOAD REGULATION	lo=30 to 100%	100max	120max	150max	150max	300max				
	[mV] *3	lo=0 to 30%	Burst operation (Pleas	e contact us about det	ail)						
	BIPPLE[mVp-p]	0 to +40℃	120max	120max	120max	150max	150max				
	*1	-10 to 0℃	160max	160max	160max	200max	400max				
UTPUT	lo: load factor	lo=0 to 30%	500max	500max	500max	500max	500max				
	RIPPLE NOISE[mVp-p]	0 to +40°C	150max	150max	150max	200max	200max				
	*1	-10 to 0°C	180max	180max	180max	240max	500max				
	lo: load factor	lo=0 to 30%	600max	600max	600max	600max	600max				
		0 to +40℃	120max	150max	240max	360max	480max				
	TEMPERATORE REGULATION[mv]	-10 to +40°C	180max	180max	290max	440max	600max				
	DRIFT[mV]	*2	48max	60max	96max	144max	192max				
	START-UP TIME[ms]		500typ (ACIN 115V, Ic	=100%) Ta=25℃		I					
	HOLD-UP TIME[ms]		20typ (ACIN 115V, lo=	=100%)							
	OUTPUT VOLTAGE ADJUSTMEN	T 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	ING[V]	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	CTION	Works over 105% of r	ating and recovers auto	matically						
ROTECTION	OVERVOLTAGE PROTE	CTION[V]	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	OPERATING INDICAT	ION	LED (Green)								
THERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Optional (Required ex	ternal power source. O	ption -R)						
	INPUT-OUTPUT • RC	*8	AC3,000V 1minute, C	utoff current = 10mA, D	C500V 50M Ω min (At ro	oom temperature)					
	INPUT-FG		AC2,000V 1minute, C	utoff current = 10mA, D	C500V 50MΩ min (At ro	oom temperature)					
OLATION	OUTPUT • RC-FG	*8	AC500V 1minute, Cut	off current = 100mA, D	C500V 50M Ω min (At ro	om temperature)					
	OUTPUT-RC	*8	AC500V 1minute, Cut	off current = 100mA, D	C500V 50M Ω min (At ro	om temperature)					
	OPERATING TEMP., HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to "Derating"). 20 - 90%RH (Non condensing). 3.000m (10.000 feet) max								
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%	6RH (Non condensing)	, 9,000m (30,000 feet) m	ax					
WIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2	G), 3minutes period, 6	Ominutes each along X,	Y and Z axes					
	IMPACT		196.1m/s ² (20G), 11m	s, once each X, Y and	Z axes						
AFETY AND	AGENCY APPROVAL	s	UL62368-1, C-UL (CS	A62368-1), EN62368-	I, UL508 (Except option	-J, -J1) Complies with D	EN-AN				
OISE	CONDUCTED NOISE		Complies with FCC-B	VCCI-B, CISPR22-B	EN55011-B, EN55022-B	, / · · · · · · · · · · · · · · · · · ·					
REGULATIONS	HARMONIC ATTENU	TOR *7	Complies with IEC610	100-3-2 class A							



OTHERS	CASE SIZE/WEIGHT	41×97×	41×97×129mm [1.61×3.82×5.08 inches] (Excluding terminal block and screw) (W×H×D) / 600g max							
UTHENS	COOLING METHOD	Convectio	n							
WARRANTY	WARRANTY *5	5 years (s	subje	ect to the operating conditions)						
*1 This is the r	result of measurement of the testing board with o	apacitors of		hour warm-up at 25°C.		isolated from input, output, and FG.				
22 µ F and	0.1 µ F placed at 150 mm from the output termin	als by a 20	*3	Consult us about dynamic load and input response. Measure the output	*	Do not use the power supply in overcurrent conditions or in unspecified				
MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken				voltage by using the average mode of the tester to deal with the burst	input voltage ranges. Otherwise the internal components may be					
RM103.		operation at 30% load or less.				damaged.				
See 1.6 of I	Instruction Manual for more details.		*4 Output power derating is required. Refer to "Derating".			Parallel operation is not possible with this mode.				
When the lo	bad factor is 0 - 30%, the switching power loss is	reduced by	*5	See 4 in Instruction Manual for more details.	*	Sound noise may be heard from the power supply when used for				
burst opera	tion, which will cause ripple and ripple noise to g	o beyond	*6	Consult us about safety agency approvals for the models with optional functions.		pulse load.				
the specific	ations.		*7 Consult us about other classes.							
*2 Drift is the change in DC output for an eight hour period after a half-				a half- *8 The RC terminal is added to option –R models. The RC terminal is						
Foot	uroe									

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.





	MODEL		PJA300F-5	PJA300F-12	PJA300F-15	PJA300F-24	PJA300F-36	PJA300F-48				
	VOLTAGE[V]		ΑC85 - 264 1 φ (Οι	Itput derating is requ	uired at AC85V - 100	V. Refer to "Derating	" and instruction mai	nual 1.1, 3)				
		ACIN 100V	3.5typ (lo=100%)	3.9typ (lo=100%)								
	CURRENT[A]	ACIN 115V	3.0typ (lo=100%)	3.3typ (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%)				
INPUT		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	0.98tvp (lo=100%)									
		ACIN 230V	0.95tvp (lo=100%)	.95typ (lo=100%)								
		ACIN 100V	20typ (lo=100%) Ta	0typ (lo=100%) Ta=25℃ at cold start								
	INRUSH CURRENTIA	ACIN 115V	20typ (lo=100%) Ta	Dtyp (Io=100%) Ta=25°C at cold start								
		ACIN 230V	40typ (lo=100%) Ta	typ (lo=100%) Ta=25°C at cold start								
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 240	V. 60Hz. lo=100%.	According to IEC623	68-1 and DEN-AN)						
	VOLTAGE[V]		5	12	15	24	36	48				
		ACIN 85-100V	Output derating is r	equired at ACIN 100	V or less (Refer to "[Derating")						
	CURRENT[A]	ACIN 100V-264V	50	25	20	12.5	84	63				
		ACIN 85-100V	Output derating is r	equired at ACIN 100	V or less (Refer to "[Derating")	0	0.0				
	WATTAGE[W]	ACIN 100V-264V	250	300	300	300	302.4	302.4				
		NI *3	20max	48max	60max	96max	144max	192max				
			40max	100max	120max	150max	150max	300max				
		0 to ±50°C	80max	120max	120max	120max	150max	150max				
	*1	-10 to 0°C	140may	160max	160max	160max	160max	400max				
OUTPUT		0 to ±50°C	120max	150max	150max	150max	200max	200max				
	KIPPLE NOISE[mvp-p]	-10 to 0°C	120max	180max	180may	180max	200max	500max				
		0 to ±50℃	50max	120max	150max	240max	240max	180max				
	TEMPERATURE REGULATION[mV]	-10 to +50°C	75mox	120max	190max	24011100	300max	400max				
	DRIETImVI	*2	20max	100111ax	60max	250118X	144max	102max				
	START-LIP TIME[me]	*2	200hip (ACIN 100V lo-100%)									
			20thp (ACIN 100V, 10=100%)									
			2000 (ACIN 1000,	10 80 to 13 20	13 50 to 16 50	21 60 to 26 40	32 40 to 39 60	13 20 to 52 80				
	OUTPUT VOLTAGE SETT		4.50 to 5.50	12.00 to 13.20	15.00 to 15.60	21.00 to 20.40	32.40 to 33.00	49.00 to 40.02				
	OVERCIIPPENT PROTE		Works over 105% c	f rating and recover	automatically	24.00 10 24.90	30.00 10 37.44	40.00 10 49.92				
DROTECTION		CTIONIVI	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				
	OPERATING INDICAT		LED (Green)	10.00 10 10.00	17.20 10 21.00	27.00 10 00.00	1.40 10 30.40	00.20 10 07.20				
OTHERS	BEMOTE SENSING		Not provided									
	REMOTE ON/OFF		Optional (Bequired	external nower sour	rce Ontion -B)							
		*9	AC3 000V 1minute	Cutoff current - 10		min (At room tempe	rature)					
	INPUT-FG		AC2 000V 1minute	Cutoff current = 10	mA DC500V 50MQ	min (At room tempe	rature)					
ISOLATION		*0	AC2,000 Timinute,	utoff current - 100	A DC500V 50MQ	min (At room tempe	ature)					
		*0	AC500V 1minute, C	tutoff current = 100n	A DC500V 50MQ	min (At room temper	ature)					
			20 to 170°C (Refer	to "Dorating") 20	00% PH (Non conder	nin (At 10011 temper	00 foot) max					
	STORAGE TEMP HUMID AND		20 to +70 C (Relei	0º/ PH (Non conder		1000000000000000000000000000000000000						
ENVIRONMENT		ALITIODE	$10 - 55H_7 + 10.6m/c$		ind 60minutes asch	along X V and 7 av	96					
			106 1m/c² (00C) 1	(20), omnutes per	and Z avec		63					
		<u> </u>	130.111/5" (200), 1		anu z axes							
SAFETY AND	AGENCI APPROVAL	3	0L02308-1, C-UL (D VOOL D CLODE	D D D D D D D D D D D D D D D D D D D							
			Complies with FCC	-B, VCCI-B, CISPR2	2-в, EN55011-В, EN	NDDU22-R						
REGULATIONS	HARMONIC ATTENU	AIOR *8	Complies with IEC6	1000-3-2 class A								



OTHERS		CASE SIZE/WEIGHT	JE SIZE/WEIGHT 102×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max							
UITER	3	COOLING METHOD *7	Forced c	oolir	ig (internal fan)					
WARRA	ANTY	WARRANTY *5	5 years (subj	ect to the operating conditions)					
*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	μF and (0.1 µ F 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			
MH	MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken				See 4 in Instruction Manual for more details.		input voltage ranges. Otherwise the internal components may be			
RM	1103.			*6	Consult us about safety agency approvals for the models with optional functions.		damaged.			
See	e 1.6 of l	nstruction Manual for more details.		*7	The fan speed slows down at no load.	*	Parallel operation is not possible with this mode.			
*2 Drif	ft is the c	hange in DC output for an eight hour period afte	r a half-hour	*8	Consult us about other classes.	*	Sound noise may be heard from the power supply when used for			
war	warm-up at 25°C.				*9 The RC terminal is added to option –R models. The RC terminal is pulse load.					
-	loat	Iros								

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- · 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.





	MODEL		PJA600F-5	PJA600F-12	PJA600F-15	PJA600F-24	PJA600F-36	PJA600F-48				
	VOLTAGE[V]		AC85 - 264 1 φ (Οι	utput derating is requ	ired at AC85V - 100	V. Refer to "Derating	and instruction mar	nual 1.1, 3)				
		ACIN 100V	6.7typ (lo=100%)	7.5typ (lo=100%)								
	CURRENT[A]	ACIN 115V	5.7typ (lo=100%)	6.5typ (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%)	.95typ (lo=100%)								
		ACIN 100V	20/40typ (lo=100%	0/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)								
	INRUSH CURRENT[A]	ACIN 115V	20/40typ (lo=100%	D/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)								
		ACIN 230V	40/40typ (lo=100%) (Primary inrush cu	rrent /Secondary inru	sh current) (More th	nan 3sec to re-start)					
	LEAKAGE CURRENT	[mA]	1.5max (ACIN 240)	/, 60Hz, lo=100%, A	ccording to IEC6236	8-1 and DEN-AN)						
	VOLTAGE[V]		5	12	15	24	36	48				
		ACIN 85-100V	Output derating is r	equired at ACIN 100	V or less (Refer to "I	Derating")	·					
	CORRENT[A]	ACIN 100V-264V	100	50	40	25	16.7	12.5				
	WATTACEIWI	ACIN 85-100V	Output derating is r	equired at ACIN 100	V or less (Refer to "I	Derating")						
	WATTAGE[W]	ACIN 100V-264V	500	600	600	600	601.2	600				
	LINE REGULATION[m	וV] *7	20max	48max	60max	96max	144max	192max				
	LOAD REGULATION	mV] *7	40max	100max	120max	150max	150max	300max				
	RIPPLE[mVp-p]	0 to +50℃	80max	120max	120max	120max	150max	150max				
	*1	-20 to 0℃	140max	160max	160max	160max	160max	400max				
001901	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	150max	150max	150max	200max	200max				
	*1	-20 to 0℃	160max	180max	180max	180max	240max	500max				
	TEMPERATURE RECUI ATION(m)/1	0 to +50℃	50max	120max	150max	240max	360max	480max				
		-20 to +50℃	75max	180max	180max	290max	440max	600max				
	DRIFT[mV]	*2	20max	48max	60max	96max	144max	192max				
	START-UP TIME[ms]		300typ (ACIN 100V, Io=100%)									
	HOLD-UP TIME[ms]		20typ (ACIN 100V,	lo=100%)								
	OUTPUT VOLTAGE ADJUSTMEN	IT 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	CTION	Works over 105% of	of rating and recover	s automatically		i					
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	ION	LED (Green)									
OTHERS	REMOTE SENSING	-	Optional (Option -V	V)								
	REMOTE ON/OFF		Optional (Required	external power sour	ce. Option -R)							
	INPUT-OUTPUT • RC	*3	AC3,000V 1minute	, Cutoff current = 10	mA, DC500V 50MΩ	min (At room tempe	rature)					
ISOLATION	INPUT-FG		AC2,000V 1minute	, Cutoff current = 10	mA, DC500V 50MΩ	min (At room tempe	rature)					
	OUTPUT • RC-FG	*3	AC500V 1minute, C	Cutoff current = 100n	nA, DC500V 50MΩ ι	min (At room temper	ature)					
	OUTPUT-RC	*3	AC500V 1minute, C	Cutoff current = 100n	nA, DC500V 50MΩ ι	min (At room temper	ature)					
	OPERATING TEMP., HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer	to "Derating"), 20 -	90%RH (Non conder	nsing), 3,000m (10,0	00 feet) max					
ENVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 9	0%RH (Non conder	ising), 9,000m (30,00	00 feet) max						
	VIBRATION	-	10 - 55Hz, 19.6m/s	² (2G), 3minutes per	iod, 60minutes each	along X, Y and Z ax	es					
	IMPACT	-	196.1m/s² (20G), 1	1ms, once each X, Y	and Z axes							
SAFETY AND	AGENCY APPROVAL	S	UL62368-1, C-UL (CSA62368-1), EN62	368-1 Complies with	DEN-AN						
NOISE	CONDUCTED NOISE		Complies with FCC	-B, VCCI-B, CISPR2	2-B, EN55011-B, EN	155022-B						
REGULATIONS	HARMONIC ATTENU	ATOR *9	Complies with IEC6	61000-3-2 class A								





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.





	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 instructior	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 (lo=90%)	82typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)						
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)						
INPUT		ACIN 230V	85typ (lo=100%)	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)						
		ACIN 100V	0.98typ (lo=90%)		1								
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)	38typ (lo=100%)									
		ACIN 230V	0.95typ (lo=100%)										
		ACIN 100V	15/30typ (lo=90%) (Pri	mary inrush current /Sec	condary inrush current)	(More than 10sec to re-s	start)						
	INRUSH CURRENT[A]	ACIN 115V	15/30typ (lo=100%) (P	30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)									
		ACIN 230V	30/30typ (lo=100%) (P	30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)									
	LEAKAGE CURRENT	[mA]	1.5max (ACIN 240V, 60	Hz, lo=100%, According	g to IEC62368-1 and DE	EN-AN)							
	VOLTAGE[V]		12	15	24	36	48						
		ACIN 85-115V	Output derating is requ	ired at ACIN 115V or les	s (Refer to "Derating")								
	CURRENT[A]	ACIN 115V-264V	84	67	42	28	21						
		ACIN 85-115V	Output derating is regu	ired at ACIN 115V or les	s (Refer to "Derating")		1						
	WATTAGE[W]	ACIN 115V-264V	1008	1005	1008	1008							
	LINE REGULATION[mV] *2		48max	60max	96max	144max	192max						
	LOAD REGULATION[mV] *2		100max	120max	150max	150max	300max						
	RIPPLE[mVp-p] *1 RIPPLE NOISE[mVp-p] *1	0 to +50℃	180max	180max	120max	150max	200max						
		-20 to 0℃	240max	240max	160max	200max	500max						
OUTPUT		0 to +50℃	210max	210max	150max	200max	300max						
		-20 to 0℃	270max	270max	180max	240max	600max						
		0 to +50℃	120max	150max	240max	360max	480max						
	TEMPERATURE REGULATION[mV]	-20 to +50℃	180max	180max	290max	440max	600max						
	DRIFT[mV]	*3	48max	60max	96max	144max	192max						
	START-UP TIME[ms]		800typ (ACIN 115V. lo=100%)										
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	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						
	OUTPUT VOLTAGE SETT	ING[V]	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	CTION	Works over 105% of ra	ting and recovers autom	atically								
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	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						
CIRCUIT AND	OPERATING INDICAT	ION	LED (Green)	·									
OTHERS	REMOTE SENSING		Optional (Option -W)										
	REMOTE ON/OFF		Optional (Required exte	ernal power source. Opti	on -R)								
	INPUT-OUTPUT		AC3,000V 1minute, Cu	toff current = 25mA, DC	500V 50M Ω min (At roo	om temperature)							
ISOLATION	INPUT-FG		AC2,000V 1minute, Cu	toff current = 25mA, DC	500V 50M Ω min (At roo	om temperature)							
	OUTPUT-FG		AC500V 1minute, Cuto	ff current = 100mA, DC5	500V 50M Ω min (At roo	m temperature)							
	OPERATING TEMP., HUMID. AND	ALTITUDE *4	-20 to +70℃ (Refer to '	Derating"), 20 - 90%RH	(Non condensing), 3,00	0m (10,000 feet) max							
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%	RH (Non condensing), 9	,000m (30,000 feet) ma	x							
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (20	G), 3minutes period, 60n	ninutes each along X, Y	and Z axes							
	IMPACT		196.1m/s2 (20G), 11ms	, once each X, Y and Z a	axes								
SAFETY AND	AGENCY APPROVAL	s	UL62368-1, C-UL (CSA	A62368-1), EN62368-1 (Complies with DEN-AN								
NOISE	CONDUCTED NOISE		Complies with FCC-B,	VCCI-B, CISPR22-B, EN	155011-B, EN55022-B								
REGULATIONS	HARMONIC ATTENU	ATOR *5	Complies with IEC6100	0-3-2 class A									



	1	ï								
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						
UTHENS	COOLING METHOD *6	Forced c	Forced cooling (internal fan)							
WARRANTY	WARRANTY *7	5 years (subject to the operating conditions)							
*1 This is the 22 µ F and MHz oscille RM103. See 1.6 of *2 Consult us	result of measurement of the testing board with 0.1 µ F placed at 150 mm from the output termin oscope or a ripple-noise meter equivalent to Keis Instruction Manual for more details. about dynamic load and input response.	capacitors of nals by a 20 oku-Giken	 *3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C. *4 Output power derating is required. Refer to "Derating". *5 Consult us about other classes. *6 The fan speed slows down or stops at no load. *7 See 4 in Instruction Manual for more details. 	 Consult us about safety agency approvals for the models with optional functions. 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. 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.





	MODEL		PJA1500F-12	PJA1500F-15	PJA1500F-24	PJA1500F-36	PJA1500F-48						
	VOLTAGE[V]		AC85 - 264 1 φ (Outpu	t derating is required at	AC85V - 115V. Refer to	"Derating" and instructio	n manual 1.1, 3)						
		ACIN 100V	18typ (lo=90%)										
	CURRENT[A]	ACIN 115V	16typ (lo=100%)										
		ACIN 230V	8typ (lo=100%)										
	FREQUENCY[Hz]		50 / 60 (47 - 63)										
		ACIN 100V	81typ (lo=90%)	82typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)						
	EFFICIENCY[%]	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%)										
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)	8typ (lo=100%)									
		ACIN 230V	0.95typ (lo=100%)	5typ (lo=100%)									
		ACIN 100V	15/30typ (lo=90%) (Pri	mary inrush current /See	condary inrush current)	(More than 10sec to re-	start)						
	INRUSH CURRENT[A]	ACIN 115V	15/30typ (lo=100%) (P	rimary inrush current /Se	econdary inrush current	(More than 10sec to re	e-start)						
		ACIN 230V	30/30typ (lo=100%) (P	Otyp (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)									
	LEAKAGE CURRENT	[mA]	1.5max (ACIN 240V, 60	DHz, Io=100%, Accordin	g to IEC62368-1 and DE	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	125	100	64	42	32						
		ACIN 85-115V	Output derating is requ	ired at ACIN 115V or les	ss (Refer to "Derating")	-							
	WATTAGE[W]	ACIN 115V-264V	1500	1500	1536	1512	1536						
	LINE REGULATION[n	iV] *2	48max	60max	96max	144max	192max						
	LOAD REGULATION[mV] *2		100max	120max	150max	150max	300max						
	RIPPLE[mVp-p]	0 to +50°C	180max	180max	120max	150max	200max						
OUTPUT		-20 to 0℃	240max	240max	160max	200max	500max						
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50℃	210max	210max	150max	200max	300max						
	*1	-20 to 0℃	270max	270max	270max	240max	600max						
		0 to +50°C	120max	150max	240max	360max	480max						
	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, lo=	=100%)			,						
	HOLD-UP TIME[ms]		20typ (ACIN 115V, lo=	100%)									
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	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						
	OUTPUT VOLTAGE SETT	ING[V]	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	CTION	Works over 105% of ra	ting and recovers autom	atically								
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	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						
CIRCUIT AND	OPERATING INDICAT	ION	LED (Green)										
OTHERS	REMOTE SENSING		Optional (Option -W)										
	REMOTE ON/OFF		Optional (Required exte	ernal power source. Opt	ion -R)								
	INPUT-OUTPUT		AC3,000V 1minute, Cu	toff current = 25mA, DC	500V 50M Ω min (At roo	om temperature)							
ISOLATION	INPUT-FG		AC2,000V 1minute, Cu	toff current = 25mA, DC	500V 50M Ω min (At roo	om temperature)							
	OUTPUT-FG		AC500V 1minute, Cuto	ff current = 100mA, DC	500V 50M Ω min (At roo	m temperature)							
	OPERATING TEMP., HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to '	'Derating"), 20 - 90%RH	(Non condensing), 3,00	0m (10,000 feet) max							
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%	RH (Non condensing), 9	,000m (30,000 feet) ma	x							
	VIBRATION		10 - 55Hz, 19.6m/s ² (20	G), 3minutes period, 60r	minutes each along X, Y	and Z axes							
	IMPACT		196.1m/s2 (20G), 11ms	, once each X, Y and Z	axes								
SAFETY AND	AGENCY APPROVAL	S	UL62368-1, C-UL (CS/	A62368-1), EN62368-1,	Complies with DEN-AN								
NOISE	CONDUCTED NOISE		Complies with FCC-A, V	CCI-A, CISPR22-A, EN55	5011-A, EN55022-A, addi	tional EMI/EMC Filter is re	equired for meeting class B						
REGULATIONS	HARMONIC ATTENU	ATOR *5	Complies with IEC6100	00-3-2 class A									



	178×61	×268mm [7.01×2.40×10.55 inches] (Excluding terminal	block and screw) (W×H×D) / 3.5kg max						
	1								
	Forced c	orced cooling (internal fan)							
WARRANTY *7	5 years (subject to the operating conditions)							
sult of measurement of the testing board with 1 µ F placed at 150 mm from the output termin tope or a ripple-noise meter equivalent to Keis struction Manual for more details. bout dynamic load and input response.	capacitors of nals by a 20 oku-Giken	 *3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C. *4 Output power derating is required. Refer to "Derating". *5 Consult us about other classes. *6 The fan speed slows down or stops at no load. *7 See 4 in Instruction Manual for more details. 	 *8 Consult us about safety agency approvals for the models with optional functions. * 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. * Audible noise may be heard from the power supply when used for pulse load 						
su st	COLING METHOD *6 VARRANTY *7 ult of measurement of the testing board with d µ F placed at 150 mm from the output termin spe or a ripple-noise meter equivalent to Keis ruction Manual for more details. out dynamic load and input response.	COLING METHOD *6 Forced c VARRANTY *7 5 years (ult of measurement of the testing board with capacitors of µ F placed at 150 mm from the output terminals by a 20 ope or a ripple-noise meter equivalent to Keisoku-Giken 20 ruction Manual for more details. out dynamic load and input response. 30	COOLING METHOD *6 Forced cooling (internal fan) VARRANTY *7 5 years (subject to the operating conditions) alt of measurement of the testing board with capacitors of µF placed at 150 mm from the output terminals by a 20 pape or a ripple-noise meter equivalent to Keisoku-Giken ruction Manual for more details. *3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C. varm-up at 25°C. *4 Output power derating is required. Refer to "Derating". varm-up at 25°C. *4 Output power derating is required. Refer to "Derating". varm-up at 25°C. *4 Output power derating is required. Refer to "Derating". varm-up at 25°C. *6 The fan speed slows down or stops at no load. varm-up at 25°C. *6 The fan speed slows down or stops at no load. varm-up at 25°C. *6 The fan speed slows down or stops at no load. varm-up at 25°C. *6 The fan speed slows down or stops at no load. varm-up at 25°C. *6 The fan speed slows down or stops at no load. varm-up at 25°C. *7 See 4 in Instruction Manual for more details.						

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.



COŞEL | 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. Chassis of Chassis of Chassis of Chassis of PLA series Mounting Screw

PJA100F, PJA150F



block

(F)

(E)

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 Vent hole side More than 30mm More than Ferminal block More than Terminal block Terminal block Not allowed Terminal block F A N Fan side More than 30mm Vent hole side Air flow Terminal block 7777777777 Terminal block (D) (A) (B) (C) (E) PJA600F More than 30mm More than 30mm Vent hole side Terminal block Vent hole side Terminal block More than Terminal block Not allowed Fixed Terminal bloc F A N Fixed Fixed Fan side More than 30mm screw (4pcs.) side screw screw Γ Γ (4pcs (4pcs Air flow Terminal block 772 Fixed screw Fixed screw (4pcs.) Terminal block ╋ (4pcs.) (A) (B) (C) (D) (E) PJA1000F, PJA1500F More than 30mm More than 30mm More than 30mm More than 30mm Fixed More than 30mm More than Vent hole side screw (4pcs.) Terminal block Terminal Terminal Terminal block Ţ, More than block side block side • FAN A F A N _ 0 Terminal block Fan Fan side Air flow . Air flow Π Fixed screw side (4pcs.) 777 Fixed screw (4pcs.) Fixed screw (4pcs.) Fixed screw (B) (C) (A) ╋ t (4pcs.) Terminal block Fixed Fixed screw (4pcs.) screw Not (4pcs. Terminal allowed block Terminal

PJA-14

(D)

PJA-series | COSEL

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 [%] 100 90 Load 85 ①PJA100F,PJA150F PJA1000F,PJA1500F 80 ⑦P.IA300F ③PJA600F 85 100 115 PJA100F/150F-12.15 PJA100F/150F-24,36,48 Ambient temperature Derating Curve Ambient temperature Derating Curve (Reference value) (Reference value) 100 3 3 80 80 Load factor [%] Load factor [%] 60 60 (1)Convection (A mount) Convection (A mount) 50 50 2 Convection (B, C mount) ②Convection (B, C mount) 40 ③Forced air (0.5m³ / min) 40 ③Forced air (0.5m³ / min) 30 30 20 20 50 55 60 80 30 35 40 45 50 55 60 80 70 -10 -20 -10 0 10 20 30 40 -20 0 10 20 70 Ambient temperature [°C] Ambient temperature [°C]

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.



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.

COŞEL | PJA-series

Instruction Manual

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

Instruction Manual

https://www.cosel.co.jp/redirect/catalog/en/PJA/ Before using our product https://en.cosel.co.jp/technical/caution/index.html



Basic Characteristics Data

Madal		Switching	Input	Rated	Inrush current	PCB	Patterr	n	Series/Parallel operation availability	
Wodel	Circuit method	[kHz]	[A]	input fuse	protection circuit	Material	Single sided	Double sided	Series operation	Parallel operation
	Active filter	40 to 160	10 *1	2501/ 2 154	Thormistor			Vac	Vac	No
FJATUUF	Flyback converter	20 to 150 *2	1.2 🛧 1	200V 3.15A	Inermistor	Г П-4		165	res	INO
	Active filter	40 to 160	17 + 1	2501/44	Thormistor			Vac	Vac	No
FJAISUF	Flyback converter	20 to 150 *2	1.7 🔨 1	250V 4A	THEITHSLOI	Г П- 4		tes	res	INO
DIADODE	Active filler	60	20 *2	2501/ 104	Thermister	ED_/		Vaa	Vaa	No
FJA300F	Forward converter	140	3.9 *3	200V 10A	Thermistor	ГП-4		res	165	INO
DIAGOOE	Active filler	60	7 5 4 0	0501/164	SCD			Vaa	Vaa	* 1
PJA600F	Forward converter	220	7.5 🛧 3	200V 16A	SCR	FR-4		res	Yes	~ 4
	Active filter	65	105 41					Vaa	Vaa	ste 4
PJATUUUF	Forward converter	210	12.3 🛧 1	200V 20A	INAC	ГП-4		tes	res	~ 4
DIALEOOF	Active filter	65	100 11		TDIAG			Vaa	Vaa	* 1
FJA1500F	Forward converter	210	10.0 🛧 1	200V 30A	INIAC	ГМ-4	Yes		res	ጥ 4

*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.

Mouser Electronics

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 PJA150F-24
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 PJA100F-36-R
 PJA600F

 48-W
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 PJA100F-15-T
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 PJA100F-15-J

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 PJA100F-48-J
 PJA600F-5-G
 PJA600F-12-R
 PJA600F-15-C
 PJA100F-15-J

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