













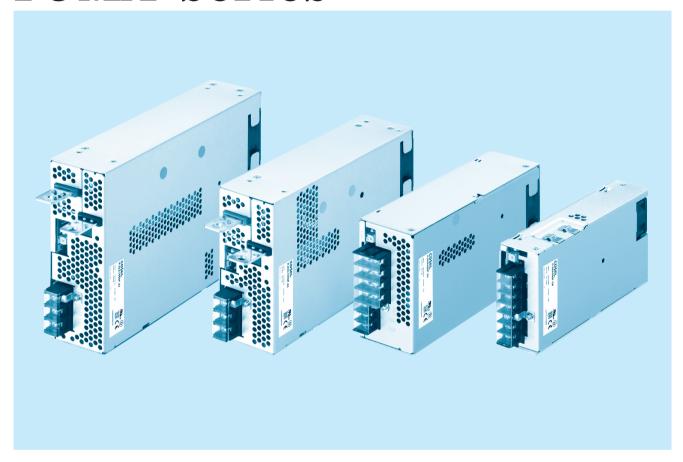








PJMA-series



Feature

4kV isolation

Economical design

Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)

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

Safety agency approvals

ANSI/AAMI ES60601-1, EN60601-1 3rd

5-year warranty (See Instruction Manual)

■ CE marking

Low Voltage Directive RoHS Directive

EMI

Complies with FCC-B, CISPR32-B, EN55011-B, EN55032-B, VCCI-B

(PJMA1500F: Class A. In conducted noise, it can meet class B by additional EMI/EMC filter.)

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

IEC60601-1-2 (2014), IEC60601-1-2 (2015)

EN61000-4-2

EN61000-4-3

EN61000-4-4

EN61000-4-5

EN61000-4-6

EN61000-4-8

EN61000-4-11

PJMA300F

PJM

300





Example recommended EMI/EMC filter NAC-06-472



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
 ⑥Optional *6
 C: with Coating
 G: Low leakage current
 V: External potentiometer for output voltage adjustment
 R: Remote on/off
 《Required external power source
- (Required external power source) F4: Low speed fan

See 5.1 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		PJMA300F-12	PJMA300F-24	PJMA300F-36	PJMA300F-48			
	VOLTAGE[V]		AC85 - 264 1 φ (Output derat						
		ACIN 100V							
	CURRENT[A]		3.3typ (Io=100%)	-					
			1.7typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
ŀ		ACIN 100V	79typ (Io=100%)	82typ (Io=100%)	83typ (Io=100%)	82typ (lo=100%)			
	EFFICIENCY[%]		80typ (Io=100%)	83typ (lo=100%)	83typ (Io=100%)	83typ (Io=100%)			
INPUT			82typ (Io=100%)	86typ (Io=100%)	87typ (Io=100%)	86typ (Io=100%)			
•			0.99typ (lo=100%)	cotyp (io 1007s)	07.136 (10 10070)	σοιγρ (10 10070)			
	POWER FACTOR		0.98typ (Io=100%)						
			0.95typ (Io=100%)						
ŀ		ACIN 100V		cold start					
	INRUSH CURRENT[A]	ACIN 115V	- 71- (
	introdit odiniziti[A]	ACIN 230V	* ' '						
ŀ	LEAKAGE CURRENT		0.3max (ACIN 240V, 60Hz, Io						
	VOLTAGE[V]	[-m-1	12	24	36	48			
}		ACIN 85-100V	Output derating is required at			70			
	CURRENT[A]	ACIN 03-100V ACIN 100V-264V	25	12.5	8.4	6.3			
		ACIN 85-100V	Output derating is required at			0.0			
	WATTAGE[W]	ACIN 100V-264V	300	300	302.4	302.4			
	LINE REGULATION[mV] *3		48max	96max	144max	192max			
-	LOAD REGULATION[mV] *3		100max	150max	150max	300max			
		0 to +50℃	120max	120max	150max	150max			
	RIPPLE[mVp-p]	-10 to 0°C	160max	160max	160max	400max			
OUTPUT		0 to +50°C	150max	150max	200max	200max			
	RIPPLE NOISE[mVp-p]	-10 to 0°C	180max	180max	240max	500max			
	*1	0 to +50°C	120max	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +50℃	180max	290max	440max	600max			
-	DDIET[\/]	10.10.100.1	48max		144max				
-	DRIFT[mV] *2			96max	144IIIax	192max			
-	START-UP TIME[ms]		300typ (ACIN 100V, Io=100%)						
-	HOLD-UP TIME[ms]	NT DANCERO	20typ (ACIN 100V, lo=100%)	01 00 to 00 10	00.40 to 00.00	40.00 to 50.00			
	OUTPUT VOLTAGE ADJUSTME		10.80 to 13.20	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80			
	OVERCURRENT PROTE		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92			
	OVERCURRENT PROTI		Works over 105% of rating ar	· · · · · · · · · · · · · · · · · · ·	41 40 to 50 40	EE 00 to 07 00			
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTE OPERATING INDICA			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20			
OTHERS	REMOTE SENSING	IION	LED (Green)						
J.11L110	REMOTE SENSING		Not provided Optional (Required external power source Option, R)						
	INPUT-OUTPUT • RC	*9	Optional (Required external power source. Option -R)						
-	INPUT-FG	*9	1						
ISOLATION		*9	AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)						
-	OUTPUT • RC-FG OUTPUT-RC		AC1,500V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature) AC500V 1minute, Cutoff=20mA, DC500V 50MΩmin (At room temperature)						
						at) may			
	OPERATING TEMP.,HUMID.AND		3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
ENVIRONMENT	STORAGE TEMP.,HUMID.AN	DALIIIUDE	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •					
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3m		cri along X, Y and ∠ axes				
	IMPACT		196.1m/s² (20G), 11ms, once						
SAFETY AND	AGENCY APPROVAL	-5	ANSI/AAMI ES60601-1, EN6		ENIFECCO D				
NOISE REGULATIONS	CONDUCTED NOISE	ATOR ::	Complies with FCC-B, VCCI-I		EN55022-B				
NEGULATIONS	HARMONIC ATTENU	ATUR *8	Complies with IEC61000-3-2	ciass A					

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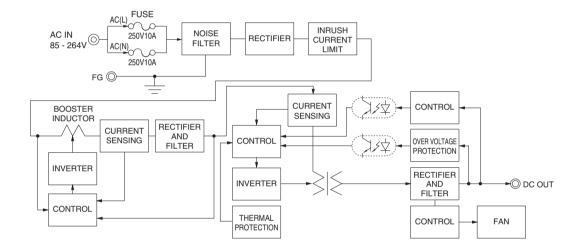
OTHERS	CASE SIZE/WEIGHT		02×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max				
	COOLING METHOD	*7	Forced cooling (internal fan)				
WARRANTY	WARRANTY	*5	5 years (subject to the operating conditions)				

- *1 This is the result of measurement of the testing board with capacitors of 22 µF and 0.1 µF placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku Giken R104 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 $25\,^{\circ}\mathrm{C}$.
- Consult us about dynamic load and input response
- 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.
- The fan speed slows down at no load.
- Consult us about other classes
- *9 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

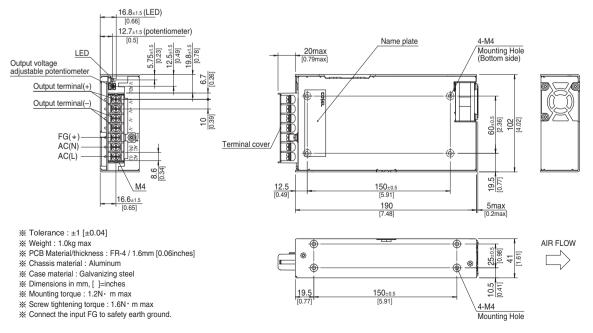
- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG: 1MOPP, Input-Output: 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to "Derating")
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

Block diagram



External view

The external size of -V option and -R option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.



PJMA600F

600 **PJM**



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.

- ①Series name
 ②Single output
 ③Output wattage
 ④Universal input
 ⑤Output voltage
 ⑥Optional *6
 C: with Coating
 G: Low leakage current
 V: External potentiometer for output voltage adjustment
 WI: LV alarm and Remote sensing
 R: Remote on/off

 - R : Remote on/off (Required external power source) F4: Low speed fan

See 5.1 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		PJMA600F-12	PJMA600F-24	PJMA600F-36	PJMA600F-48			
	VOLTAGE[V]		AC85 - 264 1 φ (Output dera	ting is required at AC85V - 100	V. Refer to "Derating" and instr	uction manual 1.1)			
		ACIN 100V	7.5typ (lo=100%)						
	CURRENT[A]	ACIN 115V	6.5typ (lo=100%)						
		ACIN 230V	3.2typ (Io=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
		ACIN 100V	81typ (lo=100%)	84typ (Io=100%)	85typ (Io=100%)	85typ (lo=100%)			
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (Io=100%)	86typ (Io=100%)	85typ (lo=100%)			
INPUT		ACIN 230V	84typ (lo=100%)	88typ (Io=100%)	88typ (Io=100%)	88typ (lo=100%)			
		ACIN 100V	0.99typ (lo=100%)			, , , , ,			
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)						
		ACIN 230V	0.95typ (lo=100%)						
		_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	inrush current /Secondary inru	ush current) (More than 3sec t	o re-start)			
	INRUSH CURRENT[A]		** * * * *	inrush current /Secondary inru					
		ACIN 230V	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	inrush current /Secondary inru					
	LEAKAGE CURRENT		0.3max (ACIN 240V,60Hz,lo=		, ,	/			
	VOLTAGE[V]		12	24	36	48			
		ACIN 85-100V		t ACIN 100V or less (Refer to "					
	CURRENT[A]	ACIN 100V-264V	50	25	16.7	12.5			
		ACIN 85-100V	Output derating is required at	t ACIN 100V or less (Refer to "					
	WATTAGE[W]	ACIN 100V-264V	600	600	601.2	600			
	LINE REGULATION[r		48max	96max	144max	192max			
	LOAD REGULATION	-	100max	150max	150max	300max			
	RIPPLE[mVp-p]	0 to +50°C	120max	120max	150max	150max			
	*1	-20 to 0°C	160max	160max	160max	400max			
DUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C	150max	150max	200max	200max			
	*1	-20 to 0°C	180max	180max	240max	500max			
			120max	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-20 to +50°C	180max	290max	440max	600max			
	DRIFT[mV]	*2	48max	96max	144max	192max			
	START-UP TIME[ms]		46max						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTME	NT RANGE[V]	· · · · · · · · · · · · · · · · · · ·	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80			
	OUTPUT VOLTAGE SET		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92			
	OVERCURRENT PROT		Works over 105% of rating ar		1 22:00 10 07:11	1 .3.00 10 .0.02			
PROTECTION	OVERVOLTAGE PROTE			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20			
CIRCUIT AND	OPERATING INDICA		LED (Green)						
OTHERS	REMOTE SENSING		Optional (Option -W1)						
	REMOTE ON/OFF		Optional (Required external power source. Option -R)						
	INPUT-OUTPUT • RC	*3							
	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)						
ISOLATION	OUTPUT • RC-FG	*3							
	OUTPUT-RC	*3							
	OPERATING TEMP.,HUMID.AND			· · · · · · · · · · · · · · · · · · ·		nax			
	STORAGE TEMP., HUMID.AN								
ENVIRONMENT	VIBRATION	ALITIONE	· · · · · · · · · · · · · · · · · · ·	ninutes period, 60minutes each					
	IMPACT		196.1m/s² (20G), 11ms, once		along A, I allu Z axes				
CACETY AND	AGENCY APPROVAL	s	ANSI/AAMI ES60601-1, EN6	· · · · · · · · · · · · · · · · · · ·					
SAFETY AND NOISE	CONDUCTED NOISE		<u> </u>	B, CISPR32-B, EN55011-B, EI	N55032-B				
REGULATIONS	HARMONIC ATTENU	ATOP *0	Complies with IEC61000-3-2	· · · · · · · · · · · · · · · · · · ·	NOJUJE-D				
LEGOLATIONS	HANNONIC ATTENU	AIUN *	Compiles with IEC61000-3-2	UIASS M					

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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
	COOLING METHOD	*8	Forced cooling (internal fan)
WARRANTY	WARRANTY	* 5	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 RM104 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.

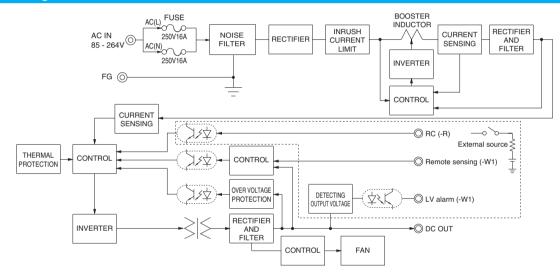
- The BC terminal is added to option -R models. The BC terminal is isolated from input, output, and FG.
- Output power derating is required. Refer to "Derating"
 - See 3 in Instruction Manual for more details
 - Consult us about safety agency approvals for the models with optional functions.
 - Consult 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.
- Sound noise may be heard from the power supply when used for pulse load.

Features

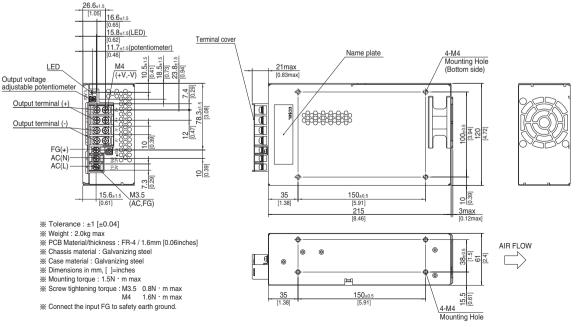
- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG: 1MOPP, Input-Output: 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to "Derating")
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

Block diagram



External view

The external size of -V option, -W1 option and -R option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.



August 26, 2022 PJMA-5

Ordering information

PJMA1000F

1000 **PJM**





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
 - W1: LV alarm and Remote sensing
 - R: Remote on/off (Required external power source)
 - F4: Low speed fan

See 5.1 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		PJMA1000F-12	PJMA1000F-24	PJMA1000F-36	PJMA1000F-48						
	VOLTAGE[V]		AC85 - 264 1 φ (Output derat	ing is required at AC85V - 115	V. Refer to "Derating" and instr	uction manual 1.1)						
		ACIN 100V	12.5typ (lo=90%)									
	CURRENT[A]	ACIN 115V	11.0typ (Io=100%)									
		ACIN 230V	5.5typ (Io=100%)									
	FREQUENCY[Hz]	,	50 / 60 (47 - 63)									
		ACIN 100V	81typ (lo=90%)	84typ (Io=90%)	84typ (lo=90%)	84typ (Io=90%)						
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (Io=100%)	85typ (lo=100%)	85typ (lo=100%)						
INPUT			85typ (lo=100%)	88typ (Io=100%)	88typ (lo=100%)	88typ (lo=100%)						
		ACIN 100V	0.98typ (lo=90%)	,								
	POWER FACTOR		0.98typ (lo=100%)									
			0.95typ (lo=100%)									
		ACIN 100V	15/30typ (Io=90%) (Primary in	nrush current /Secondary inrus	h current) (More than 10sec to	o re-start)						
	INRUSH CURRENT[A]	ACIN 115V	15/30typ (Io=100%) (Primary	inrush current /Secondary inru	sh current) (More than 10sec	to re-start)						
		ACIN 230V	71 \ 7 \ 7	inrush current /Secondary inru								
	LEAKAGE CURRENT	[mA]	0.3max (ACIN 240V, 60Hz, Io	-	, ,	,						
	VOLTAGE[V]		12	24	36	48						
		ACIN 85-115V	Output derating is required at	ACIN 115V or less (Refer to "I								
	CURRENT[A]	ACIN 115V-264V	84	42	28	21						
	_	ACIN 85-115V	Output derating is required at	ACIN 115V or less (Refer to "I	Deratina")							
	WATTAGE[W]	ACIN 115V-264V	1008	1008	1008	1008						
	LINE REGULATION[n	nV1 *2	48max	96max	144max	192max						
	LOAD REGULATION		100max	150max	150max	300max						
	RIPPLE[mVp-p]	0 to +50℃	180max	120max	150max	200max						
	*1	-20 to 0°C	240max	160max	200max	500max						
OUTPUT	RIPPLE NOISE[mVp-p]	_	210max	150max	200max	300max						
		-20 to 0°C	270max	180max	240max	600max						
	TEMPERATURE	0 to +50°C	120max	240max	360max	480max						
	REGULATION[mV]	-20 to +50°C	180max	290max	440max	600max						
	DRIFT[mV]	*3	48max	96max	144max	192max						
	START-UP TIME[ms]		800typ (ACIN 115V, Io=100%)									
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)									
	OUTPUT VOLTAGE ADJUSTMEN	NT RANGE[V]	10.80 to 13.50	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20						
	OUTPUT VOLTAGE SET		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92						
	OVERCURRENT PROTE		Works over 105% of rating ar									
PROTECTION	OVERVOLTAGE PROTE		14.40 to 17.40	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20						
CIRCUIT AND	OPERATING INDICAT		LED (Green)			1						
OTHERS	REMOTE SENSING		Optional (Option -W, -W1)									
	REMOTE ON/OFF		Optional (Required external power source. Option -R)									
	INPUT-OUTPUT		AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩ min (At room temperature)									
	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩ min (At room temperature)									
ISOLATION	OUTPUT • RC-FG	*3	<u>'</u>	DmA, 1MOPP DC500V 50MΩ								
	OUTPUT-RC		AC500V 1minute, Cutoff=20mA, DC500V 50M Ω min (At room temperature)									
	OPERATING TEMP.,HUMID.AND	ALTITUDE *4		ng"), 20 - 90%RH (Non conder		ax						
	STORAGE TEMP., HUMID.ANI		,	on condensing), 9,000m (30,00								
ENVIRONMENT	VIBRATION			inutes period, 60minutes each								
	IMPACT		196.1m/s² (20G), 11ms, once		<u> </u>							
SAFETY AND	AGENCY APPROVAL	.s	ANSI/AAMI ES60601-1, EN6									
NOISE	CONDUCTED NOISE		· · · · · · · · · · · · · · · · · · ·	A, CISPR32-A, EN55011-A, EN	N55032-A							
REGULATIONS	HARMONIC ATTENU	ATOR *5	Complies with IEC61000-3-2	· · · · · · · · · · · · · · · · · · ·								
	1											

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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
	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 RM104
- warm-up at 25℃ Consult us about other classes
- Consult us about safety agency approvals for the models with optional functions.

- 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.

- See 1.6 of Instruction Manual for more details.
- The fan speed slows down or stops at no load. See 3 in Instruction Manual for more details.
- Parallel operation is not possible with this mode.

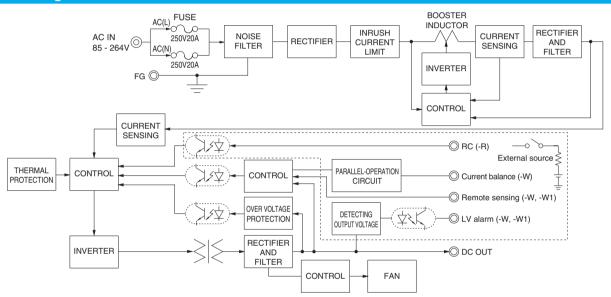
Consult us about dynamic load and input response

Audible noise may be heard from the power supply when used for pulse load.

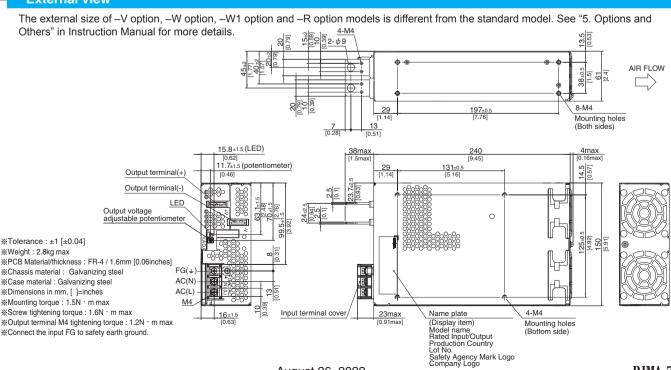
Features

- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG: 1MOPP, Input-Output: 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to "Derating")
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

Block diagram



External view



PJMA1500F

1500 **PJM**





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
 - W1: LV alarm and Remote sensing
 - R: Remote on/off (Required external power source)
- F4: Low speed fan

See 5.1 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		PJMA1500F-12	PJMA1500F-24	PJMA1500F-36	PJMA1500F-48				
	VOLTAGE[V]		AC85 - 264 1 ϕ (Output derating is required at AC85V - 115V. Refer to "Derating" and instruction manual 1.1)							
		ACIN 100V	18typ (Io=90%)							
	CURRENT[A]	ACIN 115V	V 16typ (lo=100%)							
		ACIN 230V								
	FREQUENCY[Hz]		50 / 60 (47 - 63)							
		ACIN 100V	81typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)				
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	84typ (lo=100%)				
NPUT		ACIN 230V	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	87typ (lo=100%)				
		ACIN 100V	0.98typ (lo=90%)	98typ (lo=90%)						
	POWER FACTOR	ACIN 115V	0.98typ (Io=100%)							
		ACIN 230V	0.95typ (Io=100%)							
		ACIN 100V	15/30typ (Io=90%) (Primary	inrush current /Secondary inru	ush current) (More than 10sec t	to re-start)				
	INRUSH CURRENT[A]	ACIN 115V	15/30typ (Io=100%) (Primar	y inrush current /Secondary in	rush current) (More than 10sec	to re-start)				
		ACIN 230V	30/30typ (Io=100%) (Primary	y inrush current /Secondary in	rush current) (More than 10sec	to re-start)				
	LEAKAGE CURRENT	[mA]	0.3max (ACIN 240V, 60Hz, I	o=100%)						
	VOLTAGE[V]		12	24	36	48				
_	CUDDENTIAL	ACIN 85-115V	Output derating is required a	at ACIN 115V or less (Refer to	"Derating")					
	CURRENT[A]	ACIN 115V-264V	125	64	42	32				
	WATTACEIWI	ACIN 85-115V	Output derating is required a	at ACIN 115V or less (Refer to	"Derating")					
	WATTAGE[W]	ACIN 115V-264V	1500	1536	1512	1536				
	LINE REGULATION[n	nV] *2	48max	96max	144max	192max				
	LOAD REGULATION	mV] *2	100max	150max	150max	300max				
	RIPPLE[mVp-p]	0 to +50°C	180max	120max	150max	200max				
OLITPLIT.	*1	-20 to 0°C	240max	160max	200max	500max				
DUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C	210max	150max	200max	300max				
	*1	-20 to 0°C	270max	270max	240max	600max				
	TEMPERATURE REQUIRATIONS AS	0 to +50°C	120max	240max	360max	480max				
	TEMPERATURE REGULATION[mV]	-20 to +50°C	180max	290max	440max	600max				
	DRIFT[mV]	*3	48max	96max	144max	192max				
	START-UP TIME[ms]		800typ (ACIN 115V, Io=100%)							
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMEN	NT RANGE[V]	10.80 to 13.50	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20				
	OUTPUT VOLTAGE SE		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
	OVERCURRENT PROTE		Works over 105% of rating a	nd recovers automatically	,					
PROTECTION	OVERVOLTAGE PROTE	CTION[V]		28.80 to 34.80	43.20 to 52.20	57.00 to 67.20				
CIRCUIT AND	OPERATING INDICAT	TION	LED (Green)	•	•	•				
THERS	REMOTE SENSING		Optional (Option -W, -W1)							
	REMOTE ON/OFF		Optional (Required external power source. Option -R)							
	INPUT-OUTPUT		AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩ min (At room temperature)							
OOL ATION	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50M Ω min (At room temperature)							
SOLATION	OUTPUT • RC-FG	*3								
	OUTPUT-RC		AC500V 1minute, Cutoff=20mA, DC500V 50M Ω min (At room temperature)							
	OPERATING TEMP.,HUMID.AND	ALTITUDE *4								
-	STORAGE TEMP.,HUMID.ANI	ALTITUDE	-20 to +75°C, 20 - 90%RH (N	Non condensing), 9,000m (30,	000 feet) max					
ENVIRONMENT	VIBRATION			ninutes period, 60minutes eac						
	IMPACT		196.1m/s² (20G), 11ms, onc							
		.s	ANSI/AAMI ES60601-1, EN			,				
SAFETY AND	AGENCY APPROVALS		Complies with FCC-A, VCCI-A, CISPR32-A, EN55011-A, EN55032-A							
SAFETY AND NOISE	CONDUCTED NOISE		Complies with FCC-A, VCCI	-A, CISPR32-A, EN55011-A, I	EN55032-A					





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
	COOLING METHOD *6	Forced cooling (internal fan)
WARRANTY	WARRANTY *7	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.

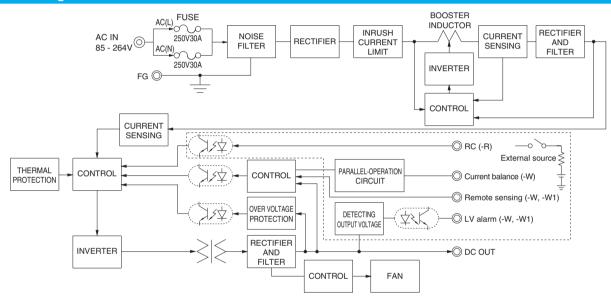
Consult us about dynamic load and input response

- warm-up at 25℃.
- Drift is the change in DC output for an eight hour period after a half-hour *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
- Output power derating is required. Refer to "Derating".
- Consult us about other classes
- The fan speed slows down or stops at no load. See 3 in Instruction Manual for more details.
- 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.

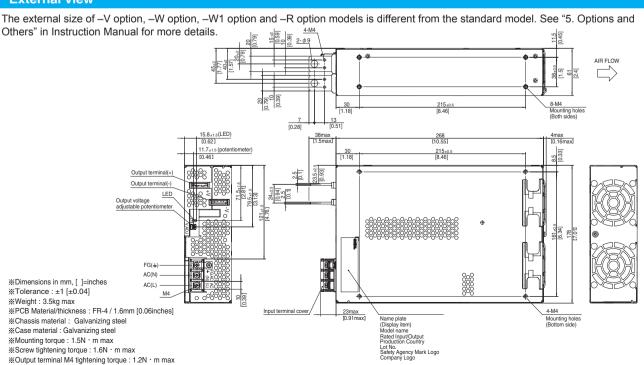
Features

- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG: 1MOPP, Input-Output: 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to "Derating")
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

Block diagram



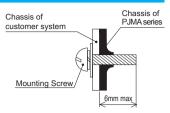
External view



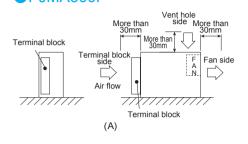
COSEL | PJMA-series

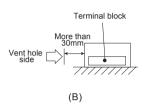
Assembling and Installation Method

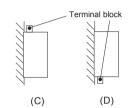
■Do not insert a screw more than 6mm from the outside of a power supply to keep enough insulation distance between the screw and internal components.

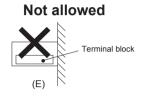


PJMA300F

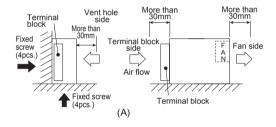


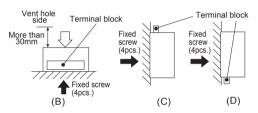


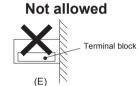




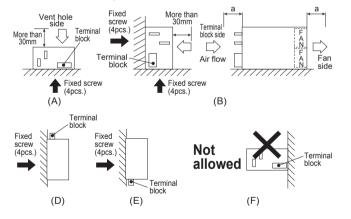
●PJMA600F

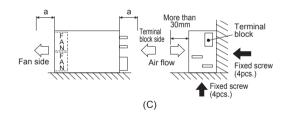






●PJMA1000F, PJMA1500F





	PJMA1000F	PJMA1500F
а	More than 30mm	More than 50mm

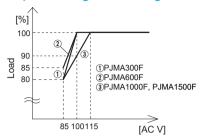
Assembling and Installation Method

- ■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 output will stop.
- ■The life expectancy (R(t)=90%) of the built-in fan varies depending on the operating condition.

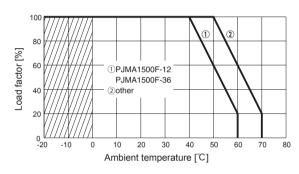


Derating

Input voltage Derating Curve



Ambient temperature Derating Curve



- ■In the hatched area, the specification of Ripple, Ripple Noise is different from other area.
- ■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/PJMA/ Before using our product https://en.cosel.co.jp/technical/caution/index.html





Basic Characteristics Data

Model	Circuit method	Switching	Input current	Rated	Inrush current			1	Series/Parallel operation availability	
iviodei	Circuit method	frequency [kHz]	[A]	input fuse	protection circuit	Material	Single sided	Double sided	Series operation	Parallel operation
DIMAGOOF	Active filler	60	0.0 **1	250V 10A	TI	FD 4		V	.,	NI.
PJMA300F	Forward converter	140	3.9 *1	250V 10A	Thermistor	FR-4		Yes	Yes	No
DIMAGOOE	Active filler	60	7.5 *1	250V 16A	SCR	FR-4		Yes	Yes	No
PJMA600F	Forward converter	220								
D IMA 1000E	Active filter	65	12.5 *2	250V 20A	TRIAC	FR-4		Yes	Yes	* 3
PJMA1000F	Forward converter	210								
D IMAA FOOF	Active filter	65	18.0 *1	250V 30A	TDIAC	ED 4		Voc	Voc	*0
PJMA1500F	Forward converter	210	10.0 🛧 📗	250V 30A	TRIAC	FR-4		Yes	Yes	* 3

^{*1} The input current shown is at ACIN 100V and 100% load.

^{*2} The input current shown is at ACIN 100V and 90% load.

^{*3} Parallal operation is possible with -W option. see "5.Option and Other" is Instruction Manual.