#### **AC-DC Power Supplies Medical Type**















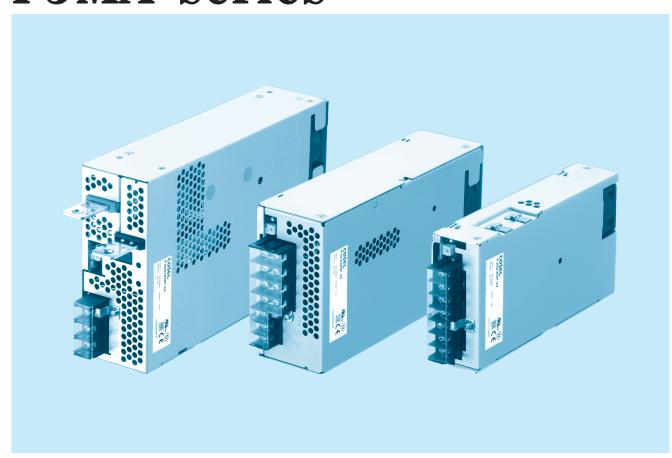






PJMA

# **PJMA-series**



#### Feature

4kV isolation

Economical design

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

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

**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

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**AC-DC Power Supplies Medical Type** 

# PJMA300F

#### Ordering information

**PJM** 

300













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
  C: with Coating
  G: Low leakage current
  V: External potentiometer for output voltage adjustment
  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		PJMA300F-12	PJMA300F-24	PJMA300F-36	PJMA300F-48					
	VOLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 100V. Refer to "Derating" and instruction manual 1.1)								
	ACIN 100V		3.9typ (lo=100%)								
	CURRENT[A]	ACIN 115V	3.3typ (lo=100%)								
		ACIN 230V	1.7typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	79typ (lo=100%)	82typ (lo=100%)	83typ (Io=100%)	82typ (lo=100%)					
	EFFICIENCY[%]	ACIN 115V	80typ (lo=100%)	83typ (Io=100%)	83typ (lo=100%)	83typ (Io=100%)					
INPUT		ACIN 230V	82typ (lo=100%)	86typ (Io=100%)	87typ (lo=100%)	86typ (Io=100%)					
		ACIN 100V	0.99typ (lo=100%)	1 - 3   ( )	1 - 1,51	1					
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%)								
		ACIN 100V	20typ (Io=100%) TA=25°C at cold start								
	INRUSH CURRENT[A]	ACIN 115V	20typ (lo=100%) TA=25°C at cold start								
	introon connectiful	ACIN 230V	40typ (lo=100%) TA=25°C at cold start								
	LEAKAGE CURRENT		0.3max (ACIN 240V, 60Hz, Id								
	VOLTAGE[V]	נייירו	12	24	36	48					
	*OLIMUL[V]	ACIN 85-100V		t ACIN 100V or less (Refer to		1 70					
	CURRENT[A]	ACIN 03-100V ACIN 100V-264V	25	12.5	8.4	6.3					
		ACIN 100V-204V	-	t ACIN 100V or less (Refer to		0.0					
	WATTAGE[W]	ACIN 05-100V ACIN 100V-264V	300	300	302.4	302.4					
	LINE REGULATION[r		48max	96max	144max	192max					
	LOAD REGULATION		100max	150max	150max						
			120max	+		300max					
	RIPPLE[mVp-p]			120max	150max	150max					
OUTPUT	*1	-10 to 0°C		160max	160max	400max					
	RIPPLE NOISE[mVp-p]	0 to +50℃	150max	150max	200max	200max					
	<b>↑</b> 1	-10 to 0°C	180max	180max	240max	500max					
	TEMPERATURE REGULATION[mV]	0 to +50°C	120max	240max	360max	480max					
	DDIET/\//	-10 to +50℃	180max	290max	440max	600max					
	DRIFT[mV]	*2	Tomax Tomax Tomax								
	START-UP TIME[ms]		300typ (ACIN 100V, Io=100%)								
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)	1	T	T					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		10.80 to 13.20	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80					
	OUTPUT VOLTAGE SETTING[V]		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 a	· · · · · · · · · · · · · · · · · · ·	T.,	T					
PROTECTION	OVERVOLTAGE PROTE			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20					
CIRCUIT AND	OPERATING INDICA	IION	LED (Green)								
OTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Optional (Required external								
	INPUT-OUTPUT • RC	*9	7.6 ijeeer minatej eaten zemri, ziner i zeeer eemini								
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin								
-	OUTPUT • RC-FG	*9									
	OUTPUT-RC	*9									
	OPERATING TEMP.,HUMID.AND			ting"), 20 - 90%RH (Non conde		nax					
ENVIRONMENT	STORAGE TEMP.,HUMID.AN	D ALTITUDE		lon condensing), 9,000m (30,0							
	VIBRATION			ninutes period, 60 minutes eac	h along X, Y and Z axes						
	IMPACT		196.1m/s² (20G), 11ms, once								
SAFETY AND	AGENCY APPROVAL		ANSI/AAMI ES60601-1, EN6								
NOISE	CONDUCTED NOISE	CONDUCTED NOISE		-B, CISPR22-B, EN55011-B, E	N55022-B						
REGULATIONS	HARMONIC ATTENUATOR *8		Complies with IEC61000-3-2 class A								

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### PJMA300F | COSEL

#### **SPECIFICATIONS**

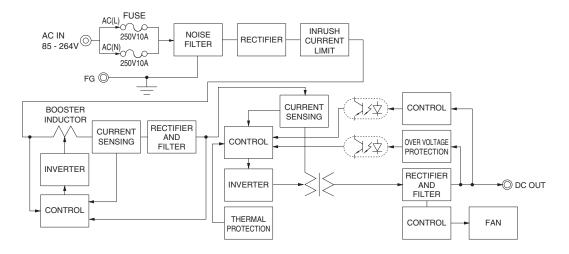
OTHERS	CASE SIZE/WEIGHT	02×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max				
	COOLING METHOD *7	Forced cooling (internal fan)				
WARRANTY	WARRANTY *5	5 years (subject to the operating conditions)				

- 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  $^{\circ}$ 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 function. 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 overc 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

#### **Features**

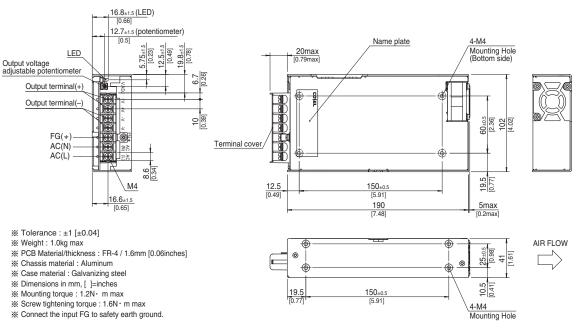
- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG: 1MOPP, Input-Output: 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption 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.



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**AC-DC Power Supplies Medical Type** 

### PJMA600F

#### Ordering information

**PJM** 

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) C: with Coating
  (8) C: with Coating
  (9) C: Low leakage current
  (9) External potentiometer for output voltage adjustment
  (1) Liv alarm and Remote sensing
  (8) Remote on/off
  (Required external power source)
  (7) 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 derating is required at AC85V - 100V. Refer to "Derating" and instruction manual 1.1)							
	ACIN 100V		7.5typ (lo=100%)							
	CURRENT[A]	ACIN 115V	6.5typ (lo=100%)							
		ACIN 230V	3.2typ (lo=100%)							
	FREQUENCY[Hz]	•	50 / 60 (47 - 63)							
		ACIN 100V	81typ (Io=100%) 84typ (Io=100%) 85typ (Io=100%) 85typ (Io=100%)							
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (lo=100%)	86typ (Io=100%)	85typ (lo=100%)				
NPUT		ACIN 230V	84typ (lo=100%) 88typ (lo=100%) 88typ (lo=1		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%)							
		ACIN 100V	20/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)							
	INRUSH CURRENT[A]	ACIN 115V	20/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)							
		ACIN 230V	40/40typ (Io=100%) (Primary inrush current/Secondary inrush current) (More than 3sec to re-start)							
	LEAKAGE CURRENT		0.3max (ACIN 240V,60Hz,lo=		(					
	VOLTAGE[V]	[]	12	24	36	48				
		ACIN 85-100V		t ACIN 100V or less (Refer to "		10				
	CURRENT[A]	ACIN 100V-264V	50	25	16.7	12.5				
		ACIN 85-100V		t ACIN 100V or less (Refer to "		12.5				
	WATTAGE[W]	ACIN 100V-264V		600	601.2	600				
	LINE REGULATION[r		48max	96max	144max	192max				
	LOAD REGULATION		100max	150max	150max	300max				
		<del></del>	120max	120max	150max	150max				
	RIPPLE[mVp-p]		160max	160max	160max	400max				
UTPUT		0 to +50°C	150max	150max	200max	200max				
	RIPPLE NOISE[mVp-p]	-20 to 0°C	180max							
	*1			180max 240max	240max 360max	500max 480max				
	TEMPERATURE REGULATION[mV]	0 to +50°C -20 to +50°C	120max	240max 290max	440max					
	DDIETIVI	*2	180max			600max				
	DRIFT[mV]		155.000							
	START-UP TIME[ms]		300typ (ACIN 100V, Io=100%)							
	HOLD-UP TIME[ms]	NT DAMAERO	20typ (ACIN 100V, Io=100%)	104.004.0040	00.40 : 00.00	40.00 ; 50.00				
	OUTPUT VOLTAGE ADJUSTMENT 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	· · · · · · · · · · · · · · · · · · ·	14 40 : 50 40	55.00 : .07.00				
ROTECTION	OVERVOLTAGE PROTE			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20				
IRCUIT AND	OPERATING INDICA	IION	LED (Green)							
ITERS	REMOTE SENSING		Optional (Option -W1)							
	REMOTE ON/OFF		Optional (Required external p							
	INPUT-OUTPUT • RC	*3	The figure 1 minutes, eaten Zentri, Ziner 1 Zecor com							
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin							
	OUTPUT • RC-FG	*3								
	OUTPUT-RC *3									
	OPERATING TEMP.,HUMID.AND		· · · · · · · · · · · · · · · · · · ·	ing"), 20 - 90%RH (Non conde	071 1 1	ax				
NVIRONMENT	STORAGE TEMP.,HUMID.AN	D ALTITUDE	, ,	on condensing), 9,000m (30,0						
	VIBRATION			ninutes period, 60minutes each	along X, Y and Z axes					
	IMPACT		196.1m/s² (20G), 11ms, once							
AFETY AND	AGENCY APPROVAL		ANSI/AAMI ES60601-1, EN6							
IOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-	B, CISPR32-B, EN55011-B, E	N55032-B					
REGULATIONS	HARMONIC ATTENUATOR *9		Complies with IEC61000-3-2 class A							

PJMA-4 October 15, 2021

### PJMA600F | COSEL

#### **SPECIFICATIONS**

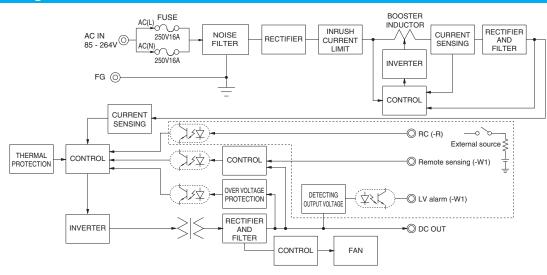
OTHERS	CASE SIZE/WEIGHT	20×61×215mm [4.72×2.40×8.46 inches] (Excluding terminal block and screw) (W×H×D) / 2.0kg max				
	COOLING METHOD *8	Forced cooling (internal fan)				
WARRANTY	WARRANTY *5	5 years (subject to the operating conditions)				

- This is the result of measurement of the testing board with capacitors of  $22\,\mu\,F$  and 0.1  $\mu\,F$  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
- \*3 The RC terminal is added to option -R models. The RC 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
- \*7 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.

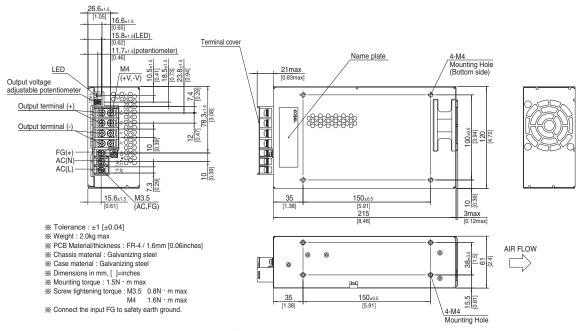
- **Features**
- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG: 1MOPP, Input-Output: 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low 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.



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**AC-DC Power Supplies Medical Type** 

# **PJMA1000F**

#### Ordering information

1000 **PJM** 











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

- ① Series name
  ② Single output
  ③ Output wattage
  ④ Universal input
  ⑤ Output voltage
  ⑥ Optional \*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 derating is required at AC85V - 115V. Refer to "Derating" and instruction manual 1.1)								
	ACIN 100V		12.5typ (Io=90%)								
	CURRENT[A]	ACIN 115V	11.0typ (lo=100%)								
		ACIN 230V									
	FREQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	81typ (Io=90%) 84typ (Io=90%) 84typ (Io=90%)								
	EFFICIENCY[%]	ACIN 115V	82typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)					
INPUT		ACIN 230V	85typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)					
		ACIN 100V	0.98typ (lo=90%)	1003/2 (10 10075)	cosp (co :cos)	100.75 (10.100.75)					
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	, , ,	0.95typ (lo=100%)							
		ACIN 100V	15/30typ (Io=90%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
	INRUSH CURRENT[A]	ACIN 115V	15/30typ (Io=90%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
	introon connectiful	ACIN 230V	30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
	LEAKAGE CURRENT		0.3max (ACIN 240V, 60Hz,	<u> </u>	illustr current) (More trial)	rosec to re-start)					
	VOLTAGE[V]	נייירו	12	24	36	48					
	VOLTAGE[V]	ACIN 85-115V		at ACIN 115V or less (Refer		70					
	CURRENT[A]	ACIN 05-115V ACIN 115V-264V	84	42	28	21					
		ACIN 115V-264V ACIN 85-115V	-	at ACIN 115V or less (Refer	1 = 2	41					
	WATTAGE[W]	ACIN 85-115V ACIN 115V-264V	1008	1008	1008	1008					
	LINE REGULATION[r		48max	96max	1008 144max	1008 192max					
				1 1 1							
	LOAD REGULATION	[]	100max	150max 120max	150max 150max	300max					
	RIPPLE[mVp-p]	0 to +50°C	180max			200max					
OUTPUT	*1	+	240max	160max	200max	500max					
	RIPPLE NOISE[mVp-p] *1	0 to +50°C		150max	200max	300max					
		+	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 ADJUSTMENT 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 PROTECTION		and recovers automatically							
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 INDICA	TION	LED (Green)								
OTHERS	REMOTE SENSING		Optional (Option -W, -W1)								
	REMOTE ON/OFF		Optional (Required external	1 /							
	INPUT-OUTPUT		AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩ min								
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩ min								
ISOLATION	OUTPUT • RC-FG	*3	AC1,500V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin								
	OUTPUT-RC AC500V 1minute, Cutoff=20mA, DC500V 50MΩ min										
	OPERATING TEMP.,HUMID.AND	ALTITUDE *4									
ENVIDONMENT	STORAGE TEMP.,HUMID.AN	D ALTITUDE	-20 to +75°C, 20 - 90%RH (	Non condensing), 9,000m (3	0,000 feet) max						
ENVIRONMENT	VIBRATION		· '	minutes period, 60minutes e	<u> </u>						
	IMPACT		196.1m/s² (20G), 11ms, one								
SAFETY AND	AGENCY APPROVAL		ANSI/AAMI ES60601-1, EN								
NOISE	CONDUCTED NOISE	-	,		. EN55032-B						
REGULATIONS	HARMONIC ATTENUATOR *5		Complies with FCC-B, VCCI-B, CISPR32-B, EN55011-B, EN55032-B  Complies with IEC61000-3-2 class A								

PJMA-6 October 15, 2021

### PJMA1000F COSEL

#### **SPECIFICATIONS**

OTHERS	CASE SIZE/WEIGHT	0×61×240mm [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)			

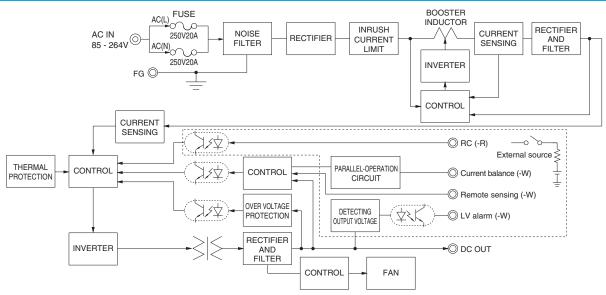
- This is the result of measurement of the testing board with capacitors of  $22\,\mu\,F$  and 0.1  $\mu\,F$  placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM104
- See 1.6 of Instruction Manual for more details
- Consult us about dynamic load and input response
- \*3 Drift is the change in DC output for an eight hour period after a half-hour
- 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.
- \*8 Consult us about safety agency approvals for the models with
- 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**

- · 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**



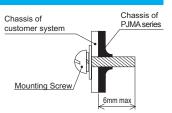
**External view** The external size of -V option, -W option, -W1 option and -R option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details. AIR FLOW 8-M4 29 197±0.5 Mounting holes (Both sides) 7 [0.281 [0.51] 15.8±1.5 (LED) 240 [9,45] [0.62] 11.7±1.5 (potentiometer) 131±0.5 Output terminal(+ Output terminal(-) Output voltage 0 [4.92] [4.92] 150 [5.91] %Tolerance : ±1 [±0.04] Weight: 2.8kg max
 PCB Material/thickness: FR-4 / 1.6mm [0.06inches] \*\*Chassis material : Galvanizing steel FG(±) AC(N) \*Dimensions in mm, [ ]=inches AC(L) ※Mounting torque: 1.5N ⋅ m max Name plate
(Display item)
Model name
Rated Input/Output
Production Country
Lot No.
Safety Agency Mark Logo
Company Logo Screw tightening torque: 1.6N · m max Input terminal cover 4-M4 23max \*Output terminal M4 tightening torque : 1.2N · m max Mounting holes (Bottom side) \*Connect the input FG to safety earth ground.

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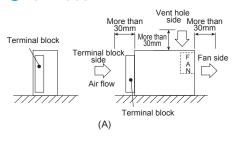
### **COSEL** | PJMA-series

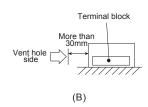
#### **Assembling and Installation Method**

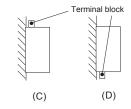
■Do not insert a screw more than 6mm from the outside of a power supply to keep enough insulation distance between the screw and internal components.

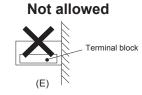


#### PJMA300F

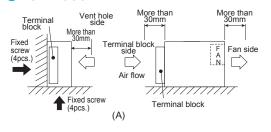


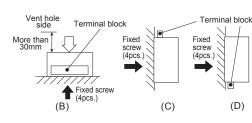


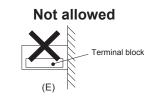




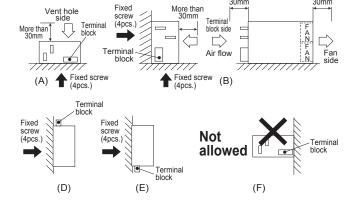
#### ●PJMA600F

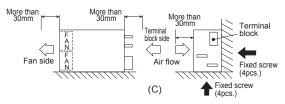






#### PJMA1000F





#### **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.
- lacktriangle The life expectancy (R(t)=90%) of the built-in fan varies depending on the operating condition.

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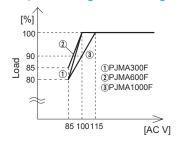
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### PJMA-series | CO\$EL

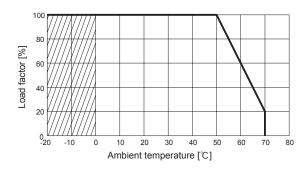


#### **Derating**

### 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 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
PJMA300F	Active filler	60	3.9 *1	250V 10A	Thermistor	FR-4		Yes	Yes	No
	Forward converter	140								
PJMA600F	Active filler	60	7.5 *1	250V 16A	SCR	FR-4		Yes	Yes	No
	Forward converter	220						res	res	INO
PJMA1000F	Active filter	65	12.5 *2	250V 20A	TRIAC	FR-4		Yes	Yes	<b>*</b> 3
	Forward converter	210	12.5 *2							

- \*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.

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