

Cost Effective

((|))

World wide

Power Factor Correction

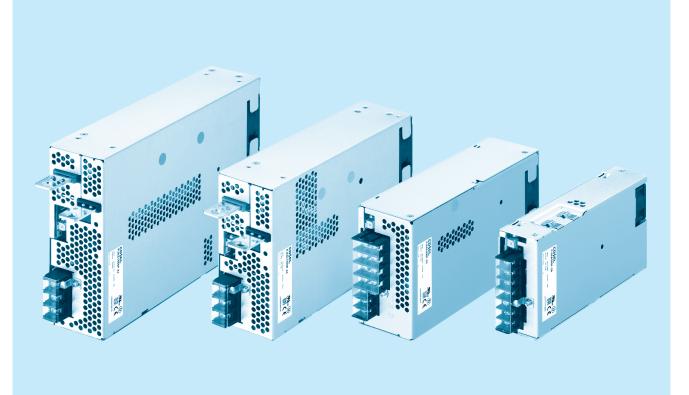
electric equipment





PJMA-series

Safety Approvals



(Lavy

Inrush

current limiting

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

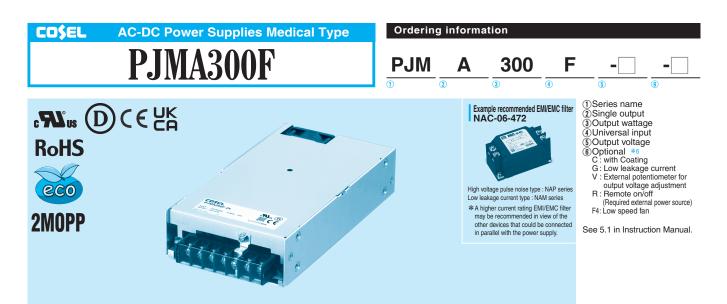
(PJMA1500F: Class A. In conducted noise, it can meet class B by additional EMI/EMC filter.)

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



SPECIFICATIONS

	MODEL		PJMA300F-12	PJMA300F-24	PJMA300F-36	PJMA300F-48					
	VOLTAGE[V]		AC85 - 264 1 ¢ (Output derating is required at AC85V - 100V. Refer to "Derating" and instruction manual 1.1)								
	ACIN 100		<i>I</i> 3.9typ (lo=100%)								
	CURRENT[A]		3.3typ (lo=100%)								
			1.7typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	79typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%)	82typ (lo=100%)					
	EFFICIENCY[%]		80typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)					
NPUT			82typ (lo=100%)	86typ (Io=100%)	87typ (lo=100%)	86typ (Io=100%)					
		+	0.99typ (lo=100%)								
	POWER FACTOR		0.98typ (lo=100%)								
			0.95typ (lo=100%)								
			, ,	at cold start							
	INBUSH CURRENTIAL		, , ,	20typ (lo=100%) TA=25°C at cold start 20typ (lo=100%) TA=25°C at cold start							
			40typ (lo=100%) TA=25°C a								
	LEAKAGE CURRENT		0.3max (ACIN 240V, 60Hz,								
	VOLTAGE[V]	[]	12	24	36	48					
		ACIN 85-100V		1 = -		40					
	CURRENT[A]	ACIN 00-100V ACIN 100V-264V	1 0 1	12.5	8.4	6.3					
		ACIN 85-100V	Output derating is required			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					
	RIPPLE[mVp-p]		120max	120max	150max	150max					
			160max	160max	160max	400max					
OUTPUT	RIPPLE NOISE[mVp-p]		150max	150max	200max	200max					
			180max	180max	240max	500max					
			120max	240max	360max	480max					
	TEMPERATURE REGULATION[mV]	-10 to +50℃		290max	440max	600max					
	DRIFT[mV]			96max	1440max	192max					
	START-UP TIME[ms]		48max		14411107	192111dA					
	HOLD-UP TIME[ms]		300typ (ACIN 100V, lo=100%) 20typ (ACIN 100V, lo=100%)								
	OUTPUT VOLTAGE ADJUSTMEN			°) 21.60 to 26.40	32.40 to 39.60	43.20 to 52.80					
	OUTPUT VOLTAGE SETT		12.00 to 12.48	24.00 to 24.96	32.40 to 39.60	43.20 to 52.80					
	OVERCURRENT PROTE		Works over 105% of rating			40.00 10 43.32					
DOTECTION	OVERVOLTAGE PROTE		°	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20					
PROTECTION CIRCUIT AND	OPERATING INDICAT		LED (Green)	21.00 10 00.00	+1.40 10 50.40	55.20 10 07.20					
OTHERS	REMOTE SENSING	1011	Not provided								
	REMOTE ON/OFF		Optional (Required external power source. Option -R)								
	INPUT-OUTPUT • RC	*9									
	INPUT-FG	~3	AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩmin (At room temperature)								
SOLATION	OUTPUT • RC-FG	*9									
	OUTPUT-RC	*9	· · · · · · · · · · · · · · · · · · ·								
	OPERATING TEMP.,HUMID.AND										
	STORAGE TEMP.,HUMID.AND										
ENVIRONMENT		ALITUDE			s each along X, Y and Z axes						
	VIBRATION				s each along A, Y and Z axes						
		<u> </u>	196.1m/s ² (20G), 11ms, one								
SAFETY AND NOISE			ANSI/AAMI ES60601-1, EN								
REGULATIONS	CONDUCTED NOISE HARMONIC ATTENU		Complies with FCC-B, VCC Complies with IEC61000-3-		-D, EN33022-B	Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					

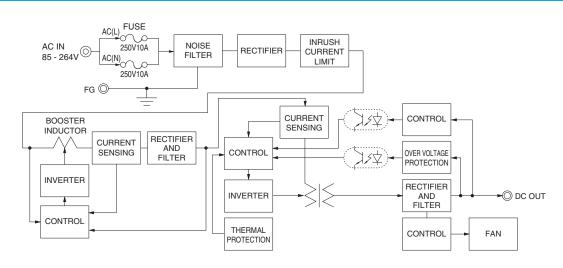


OTHERS	CASE SIZE/WEIGHT	102×41	02×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max									
UTHERS	COOLING METHOD *7	Forced c	Forced cooling (internal fan)									
WARRANTY	WARRANTY *5	5 years (rs (subject to the operating conditions)									
of 22 µ F a a 20 MHz o Giken R104 See 1.6 of I	nstruction Manual for more details. hange in DC output for an eight hour period afte	erminals by to Keisoku-	 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 op The fan speed slows down at no load. Consult us about other classes. The RC terminal is added to option –R models. The RC terminal 	3	 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. 							
Feat	ures											

· 4kV isolation

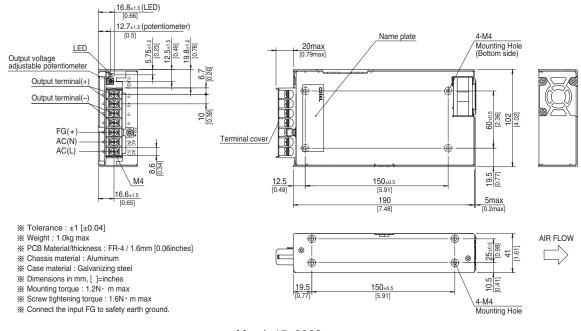
- · Economical design
- · Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- Wide temperature range (-20°C to +70°C, Refer to "Derating")
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at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

Block diagram

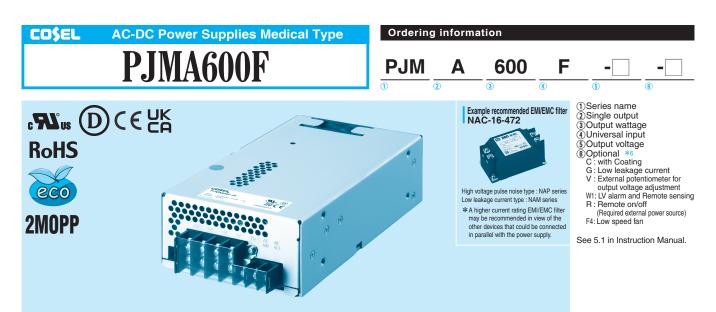


External view

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.



March 15, 2023



SPECIFICATIONS

P	MODEL		PJMA600F-12	PJMA600F-24	PJMA600F-36	PJMA600F-48					
	VOLTAGE[V]				0V. Refer to "Derating" and inst						
		ACIN 100V	V 7.5typ (lo=100%)								
C	CURRENT[A]		6.5typ (lo=100%)								
			3.2typ (lo=100%)								
F	FREQUENCY[Hz]		50 / 60 (47 - 63)								
-		ACIN 100V	81typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)					
E	EFFICIENCY[%]		82typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)	85typ (lo=100%)					
			84typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)					
		+	0.99typ (lo=100%)								
F	POWER FACTOR		0.98typ (lo=100%)								
	••••		0.95typ (lo=100%)								
-				/ inrush current /Secondary in	rush current) (More than 3sec	to re-start)					
	NRUSH CURRENT[A]		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		rush current) (More than 3sec	, ,					
					rush current) (More than 3sec	,					
l.	LEAKAGE CURRENT		0.3max (ACIN 240V,60Hz,lo			io iersialij					
	VOLTAGE[V]	[IIIA]	12	24	36	48					
	ACIN 85-100V			t ACIN 100V or less (Refer to		40					
C	CURRENT[A]	ACIN 85-100V ACIN 100V-264V		25	16.7	12.5					
		ACIN 100V-264V		t ACIN 100V or less (Refer to		12.0					
N N	WATTAGE[W]	ACIN 85-100V ACIN 100V-264V		, , , , , , , , , , , , , , , , , , , ,	3 ,	600					
ŀ.			600 48max	600	601.2	600 192max					
	LINE REGULATION[mV] *7			96max	144max						
	LOAD REGULATION		100max	150max	150max	300max					
F	RIPPLE[mVp-p] *1 RIPPLE NOISE[mVp-p] *1	0 to +50℃		120max	150max	150max					
ОИТРИТ –		-20 to 0°C		160max	160max	400max					
F		0 to +50℃		150max	200max	200max					
_		-20 to 0℃		180max	240max	500max					
Т	[EMPERATURE REGULATION[mV]	0 to +50℃		240max	360max	480max					
		-20 to +50℃		290max	440max	600max					
	DRIFT[mV] *2		48max	96max	144max	192max					
	START-UP TIME[ms]		300typ (ACIN 100V, Io=100%)								
_	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%))	- I						
	DUTPUT VOLTAGE ADJUSTMEN			21.60 to 26.40	32.40 to 39.60	43.20 to 52.80					
	OUTPUT VOLTAGE SETT		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92					
C	OVERCURRENT PROTE	CTION	Works over 105% of rating a								
	OVERVOLTAGE PROTE	CTION[V]		27.60 to 33.60	41.40 to 50.40	55.20 to 67.20					
–	OPERATING INDICAT	TION	LED (Green)								
OTHERS F	REMOTE SENSING		Optional (Option -W1)								
F	REMOTE ON/OFF		Optional (Required external power source. Option -R)								
	NPUT-OUTPUT · RC	*3	AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩmin (At room temperature)								
	NPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)								
SOLATION (OUTPUT • RC-FG	*3	AC1,500V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)								
	OUTPUT-RC	*3	AC500V 1minute, Cutoff=20mA, DC500V 50MΩmin (At room temperature)								
C	OPERATING TEMP.,HUMID.AND	ALTITUDE*4	4 -20 to +70℃ (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max								
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (N	Ion condensing), 9,000m (30,0	000 feet) max						
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3n	ninutes period, 60minutes eac	h along X, Y and Z axes						
I	IMPACT		196.1m/s2 (20G), 11ms, once	e each X, Y and Z axes							
SAFETY AND	AGENCY APPROVAL	S	ANSI/AAMI ES60601-1, EN6	60601-1 3rd							
-	CONDUCTED NOISE		Complies with FCC-B, VCCI	-B, CISPR32-B, EN55011-B, E	N55032-B						
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2	class A							

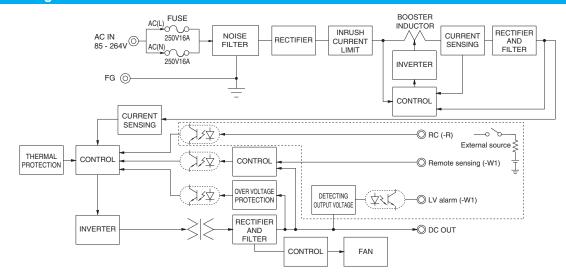


OTHERS	CASE SIZE/WEIGHT	120×61×215mm [4.72×2.40×8.46 inches] (Excluding terminal block and screw) (W×H×D) / 2.0kg max								
UTHENS	COOLING METHOD *8	Forced c	orced cooling (internal fan)							
WARRANTY	WARRANTY *5	f *5 5 years (subject to the operating conditions)								
22 µ F and MHz oscillo RM104. See 1.6 of l	esuit of measurement of the testing board with 6 0.1 µ F placed at 150 mm from the output termin scope or a ripple-noise meter equivalent to Keis nstruction Manual for more details. hange in DC output for an eight hour period afte 25°C.	ials by a 20 oku-Giken	 *3 The RC terminal is added to option –R models. The RC terminal is isolated from input, output, and FG. *4 Output power derating is required. Refer to "Derating". *5 See 3 in Instruction Manual for more details. *6 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. 	*9 * *	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

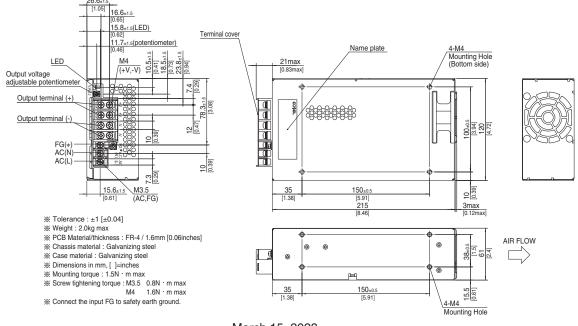
- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to "Derating")
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low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

Block diagram

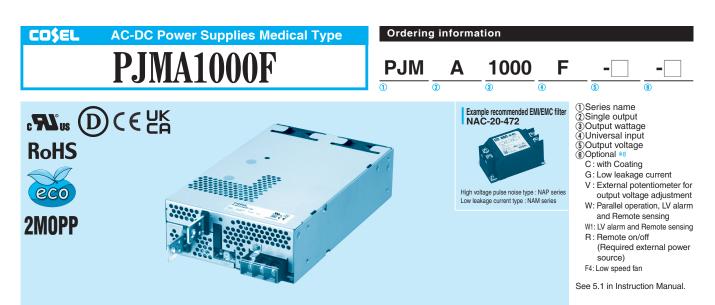


External view

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.

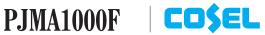


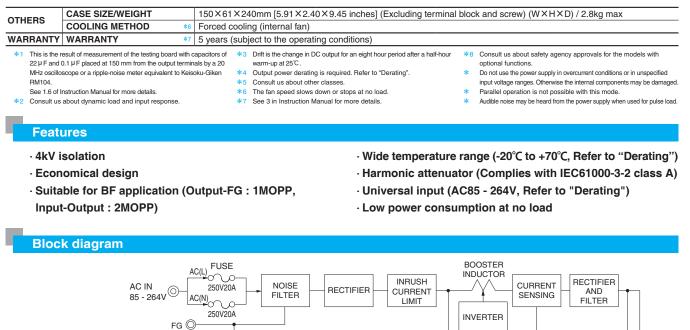
March 15, 2023

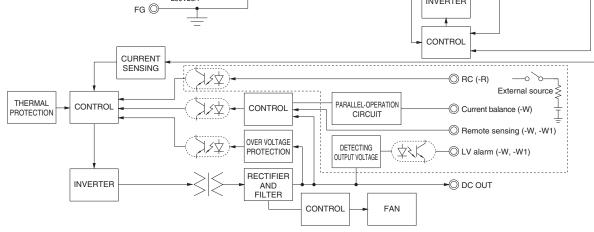


SPECIFICATIONS

M	IODEL		PJMA1000F-12	PJMA1000F-24	PJMA1000F-36	PJMA1000F-48					
V	OLTAGE[V]		AC85 - 264 1 ¢ (Output derating is required at AC85V - 115V. Refer to "Derating" and instruction manual 1.1)								
	ACIN 100V		/ 12.5typ (lo=90%)								
С	URRENT[A]	ACIN 115V	11.0typ (lo=100%)								
		ACIN 230V	5.5typ (lo=100%)								
FI	FREQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	81typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)					
E	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)					
NPUT		ACIN 230V	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)					
		ACIN 100V	0.98typ (lo=90%)	·		· · ·					
P	OWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%)								
		ACIN 100V	15/30typ (lo=90%) (Primary	inrush current /Secondary in	rush current) (More than 10)sec to re-start)					
IN	RUSH CURRENT[A]	ACIN 115V	15/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
		ACIN 230V	30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
LI	EAKAGE CURRENT	[mA]	0.3max (ACIN 240V, 60Hz, I	o=100%)							
V	OLTAGE[V]		12	24	36	48					
0	CURRENT[A]		Output derating is required a	t ACIN 115V or less (Refer t	o "Derating")						
C		ACIN 115V-264V	84	42	28	21					
10	WATTAGE[W]	ACIN 85-115V	Output derating is required a	t ACIN 115V or less (Refer t	o "Derating")						
vv		ACIN 115V-264V	1008	1008	1008	1008					
LI	LINE REGULATION[mV] *2		48max	96max	144max	192max					
L	LOAD REGULATION[mV] *2		100max	150max	150max	300max					
R	RIPPLE[mVp-p]	0 to +50℃	180max	120max	150max	200max					
	*1	-20 to 0℃	240max	160max	200max	500max					
RI	RIPPLE NOISE[mVp-p] *1	0 to +50℃	210max	150max	200max	300max					
		-20 to 0°C	270max	180max	240max	600max					
TE	MPERATURE	0 to +50℃	120max	240max	360max	480max					
RE	EGULATION[mV]	-20 to +50℃	180max	290max	440max	600max					
D	DRIFT[mV] *3		48max	96max	144max	192max					
S	TART-UP TIME[ms]		800typ (ACIN 115V, Io=100%)								
H	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)								
OL	UTPUT VOLTAGE ADJUSTMEN	IT RANGE[V]	10.80 to 13.50	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20					
0	UTPUT VOLTAGE SETT	ING[V]	12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92					
0	VERCURRENT PROTE	CTION	Works over 105% of rating a	nd recovers automatically							
PROTECTION O	VERVOLTAGE PROTE	CTION[V]	14.40 to 17.40	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20					
	PERATING INDICAT	TION	LED (Green)								
OTHERS R	EMOTE SENSING		Optional (Option -W, -W1)								
R	EMOTE ON/OFF		Optional (Required external power source. Option -R)								
IN	NPUT-OUTPUT		AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩ min (At room temperature)								
	NPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩ min (At room temperature)								
0	UTPUT • RC-FG	*3	AC1,500V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)								
0	UTPUT-RC		AC500V 1minute, Cutoff=20mA, DC500V 50MΩ min (At room temperature)								
OF	PERATING TEMP.,HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to "Derat	ting"), 20 - 90%RH (Non con	densing), 3,000m (10,000 fe	et) max					
ENVIRONMENT	FORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (N	Ion condensing), 9,000m (30),000 feet) max						
V	IBRATION		10 - 55Hz, 19.6m/s² (2G), 3n	ninutes period, 60minutes ea	ch along X, Y and Z axes						
IN	ЛРАСТ		196.1m/s2 (20G), 11ms, once	e each X, Y and Z axes							
SAFETY AND A	GENCY APPROVAL	S	ANSI/AAMI ES60601-1, EN	60601-1 3rd							
	ONDUCTED NOISE		Complies with FCC-A, VCCI	-A, CISPR32-A, EN55011-A	EN55032-A						
REGULATIONS H	ARMONIC ATTENU	ATOR *5	Complies with IEC61000-3-2	class A							

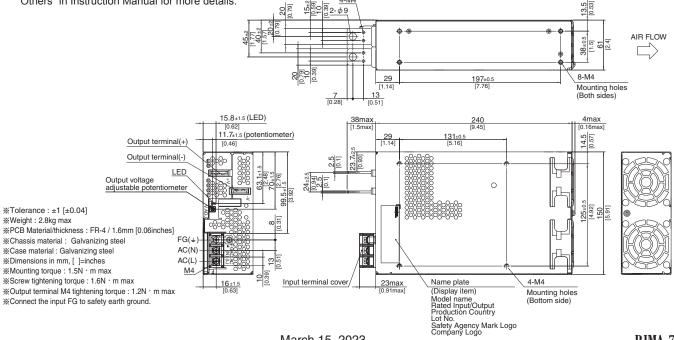


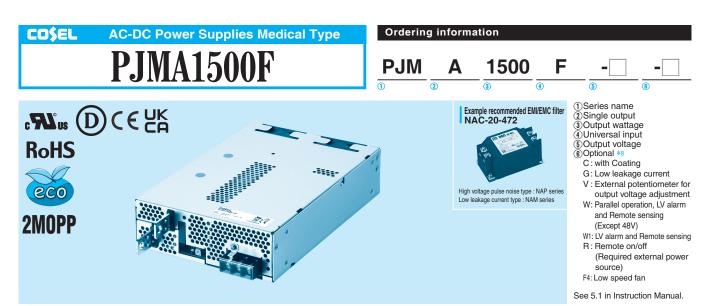




External view

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. <u>4-M4</u>

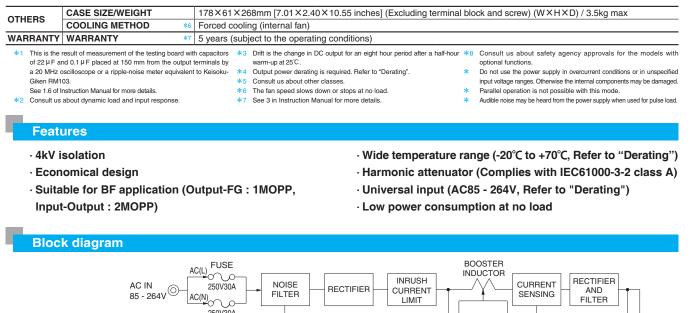


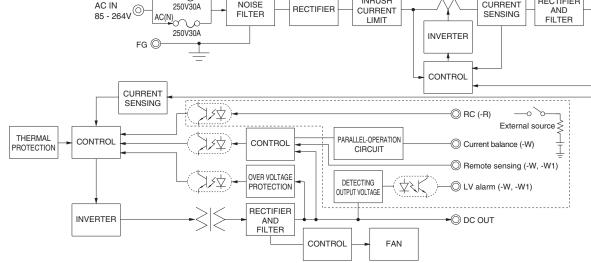


SPECIFICATIONS

VOLTAGE[V]		AC85 - 264 1 ¢ (Output de	erating is required at AC85	/ - 115V Refer to "Derating" an	d instruction manual 1 1)					
			AC85 - 264 1 \$\phi\$ (Output derating is required at AC85V - 115V. Refer to "Derating" and instruction manual 1.1)							
1	ACIN 100V	18typ (lo=90%)								
CURRENT[A]	ACIN 115V	16typ (lo=100%)								
	ACIN 230V									
FREQUENCY[Hz]		50 / 60 (47 - 63)								
	ACIN 100V	81typ (lo=90%)	84typ (Io=90%)	84typ (lo=90%)	84typ (lo=90%)					
EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	84typ (lo=100%)					
	ACIN 230V	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	87typ (lo=100%)					
	ACIN 100V	0.98typ (lo=90%)								
POWER FACTOR	ACIN 115V).98typ (lo=100%)								
	ACIN 230V	0.95typ (lo=100%)								
	ACIN 100V	15/30typ (lo=90%) (Prima	ry inrush current /Secondar	y inrush current) (More than 1	Osec to re-start)					
INRUSH CURRENT[A]	ACIN 115V	15/30typ (lo=100%) (Prima	5/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)							
		21 () (0/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)							
	[mA]		<u> </u>							
VOLTAGE[V]		12	24	36	48					
			· · · · · · · · · · · · · · · · · · ·	• • •						
			64	42	32					
WATTAGEIWI	ACIN 85-115V		· · · · · · · · · · · · · · · · · · ·	• • •						
					1536					
					192max					
LOAD REGULATION	-				300max					
RIPPLE[mVp-p]					200max					
*1 RIPPLE NOISE[mVp-p] *1			160max		500max					
			150max		300max					
					600max					
TEMPERATURE REGULATION(mV)					480max					
		180max	290max		600max					
2		48max	96max	144max	192max					
		800typ (ACIN 115V, Io=100%)								
					40.80 to 55.20					
					48.00 to 49.92					
			28.80 to 34.80	43.20 to 52.20	57.00 to 67.20					
	ION									
	*3									
. ,.	-				eet) max					
, .	ALIITUDE			· · · · · · · · · · · · · · · · · · ·						
		· · · · · · · · · · · · · · · · · · ·		s each along X, Y and Z axes						
IMPACT										
AGENCY APPROVAL CONDUCTED NOISE	.5	ANSI/AAMI ES60601-1, E	CI-A, CISPR32-A, EN5501							
	EFFICIENCY[%] POWER FACTOR INRUSH CURRENT[A] LEAKAGE CURRENT VOLTAGE[V] CURRENT[A] WATTAGE[W] LINE REGULATION[n LOAD REGULATION[n LOAD REGULATION[n IPPLE[mVp-p] *1 RIPPLE NOISE[mVp-p] *1 RIPPLE NOISE[mVp-p] *1 TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[mS] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE PROTE OVERCURRENT PROTE OVERCURRENT PROTE OVERATING INDICAT REMOTE ON/OFF INPUT-GG OUTPUT-FG OUTPUT-RC OPERATING TEMP,HUMID.AND STORAGE TEMP,HUMID.AND	FREQUENCY[Hz] ACIN 100V EFFICIENCY[%] ACIN 100V ACIN 115V ACIN 100V POWER FACTOR ACIN 100V ACIN 100V ACIN 100V POWER FACTOR ACIN 100V INRUSH CURRENT[A] ACIN 115V VOLTAGE[V] ACIN 100V VOLTAGE[V] ACIN 15V VOLTAGE[V] ACIN 15V-26W WATTAGE[W] ACIN 85-115V ACIN 15V-26W ACIN 15V-26W LINE REGULATION[mV] *2 LOAD REGULATION[mV] *2 LOAD REGULATION[mV] *2 RIPPLE [mVp-p] 0 to +50°C *1 -20 to 0°C TEMPERATURE REGULATION[mV] *2 OLTPUT VOLTAGE ADJUSTMENT RANGE[V] 0 to +50°C OUTPUT VOLTAGE ADJUST	ACIN 100V 81typ (1c=90%) ACIN 115V 82typ (1c=100%) ACIN 1230V 85typ (1c=100%) ACIN 100V 0.98typ (1c=90%) POWER FACTOR ACIN 100V 0.98typ (1c=100%) ACIN 100V 0.98typ (1c=100%) ACIN 230V 0.95typ (1c=100%) INRUSH CURRENT[A] ACIN 100V 15/30typ (1c=100%) (Prima ACIN 100V 15/30typ (1c=100%) (Prima ACIN 240V, 60H2 VOLTAGE[V] 12 30/30typ (1c=100%) (Prima CURRENT[A] ACIN 85115V Output derating is required ACIN 15V-X40V, 60H2 VOLTAGE[V] 12 CURRENT[A] ACIN 85115V Output derating is required ACIN 15V-X40V, 60H2 VATTAGE[W] ACIN 85115V Output derating is required ACIN 15V-X40V, 60H2 ACIN 85115V Output derating is required ACIN 15V-X40V, 60H2 WATTAGE[W] ACIN 85115V Output derating is required ACIN 15V-X40V, 700V ACIN 85115V Output derating is required ACIN 15V-X40V, 700V RIPPLE[mVp-p] 10 to 50°C 100max 125 ACIN 15V-X40V, 700V RIPPLE[mVp-p] 10 to 50°C 100max 120 to 0°C 210max	FREQUENCY[Hz] 50 / 60 (47 - 63) 84typ (lo=90%) EFFICIENCY[%] ACIN 10V 81typ (lo=90%) 84typ (lo=100%) ACIN 10V 0.98typ (lo=100%) 85typ (lo=100%) ACIN 10V 0.98typ (lo=100%) 88typ (lo=100%) ACIN 10V 0.98typ (lo=100%) ACIN 10V ACIN 10V 0.98typ (lo=100%) ACIN 10V ACIN 10V 15/30typ (lo=100%) (Primary inrush current /Seconda INRUSH CURRENT[A] ACIN 115V 15/30typ (lo=100%) (Primary inrush current /Seconda ACIN 10V 15/30typ (lo=100%) (Primary inrush current /Seconda ACIN 115V VOLTAGE[V] 12 24 CURRENT[A] ACIN 515V Output derating is required at ACIN 115V or less (Ref ACIN 115V 125 64 WATTAGE[W] 400115V3W 1500 1536 LINE REGULATION[mV] 42 100max 150max RIPPLE[mVp-p] 0 to +50C 180max 120max 400 for 20 C 270max 270max 20max TEMPERAURE REGULATION[mV] 48 dmax 96max STAR	FREQUENCY[Hz] S0 / 60 (47 - 63) EFFICIENCY[%] ACIN 100V Bityp (Ic=90%) Bityp (Ic=90%) Bityp (Ic=100%) Bityp (Ic=100%) ACIN 100V Bityp (Ic=100%) Bityp (Ic=100%) Bityp (Ic=100%) Bityp (Ic=100%) ACIN 100V Distyp (Ic=100%) Bityp (Ic=100%) Bityp (Ic=100%) Bityp (Ic=100%) ACIN 100V Distyp (Ic=100%) Bityp (Ic=100%) ACIN 100V IS/301yp (Ic=100%) ACIN 100V Distyp (Ic=100%) (Primary inrush current /Secondary inrush current) (More than 1 IX/301yp (Ic=100%) (Primary inrush current /Secondary inrush current) (More than 1 IRNUSH CURRENT[A] ACIN 100V IS/301yp (Ic=100%) (Primary inrush current /Secondary inrush current) (More than 1 ILEAKAGE CURRENT[M] 0.3max (ACIN 240V, 60Hz, Ic=100%) Youth derating is required at ACIN 115V or less (Refer to "Derating") VOLTAGE[V] 12 24 36 CURRENT[A] ANN 5115V Output derating is required at ACIN 115V or less (Refer to "Derating") ADNI105WW 1500 1536 1512 LINE REGULATION[TV] 48 150max 150max IPPLE[mVp-p] 016-50C 180max					

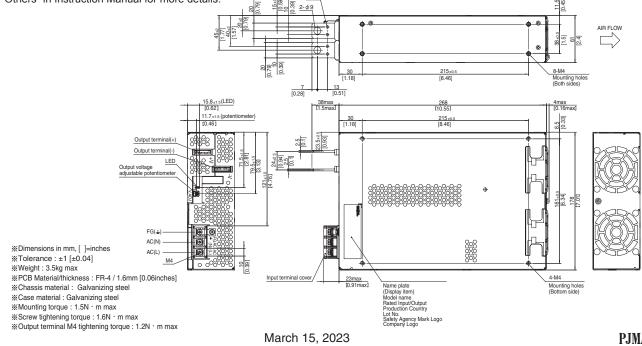






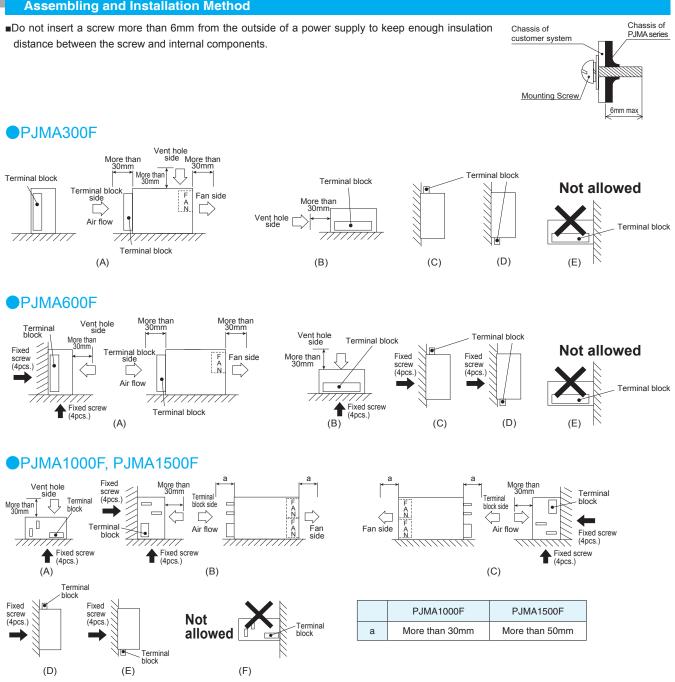
External view

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 4-M4



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Assembling and Installation Method



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).

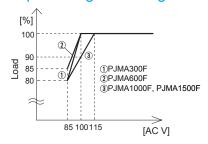
- If the power supply is used in a dusty environment, use an airfilter. Make sure air flow is not blocked.
- If the built-in fan stops, thermal protection will work and the output will stop.
- ■The life expectancy (R(t)=90%) of the built-in fan varies depending on the operating condition.

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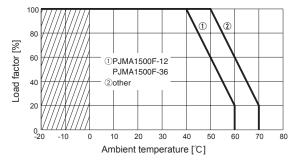


Derating

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 Before using our product

https://en.cosel.co.jp/product/powersupply/PJMA/ 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	PCB/Pattern			Series/Parallel operation availability	
					protection circuit	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	3.9 🔨 1							
PJMA600F	Active filler	60	7.5 *1	250V 16A	SCR	FR-4		Yes	Yes	No
	Forward converter	220	7.5 🛧 1							INO
	Active filter	65	10 5 40	250V 20A	TRIAC	FR-4		Yes	Yes	*3
PJMA1000F	Forward converter	210	12.5 *2							
PJMA1500F	Active filter	65	18.0 *1	250V 30A	TRIAC	FR-4		Yes	Yes	* 1
	Forward converter	210	10.0 🛧 1							*4

*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.
 *4 Parallal operation is possible with -W option. (Except 48V) see "5.Option and Other" is Instruction Manual.

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